our force is gradually increasing at this location and we hope will soon reach the required number. The Whitefish river running diagonially across the Mathews tract from N W to S E formed a sharp line of separation between our first cutting which was on the S W side and subsequent operations, presenting an excellent opportunity for making a check between chopping and shipments, and a comparison between cordwood actually obtained and Howies estimates. This was taken advantage of in reaching results given below. The figures cover one years work. The timber and typography was very broken making the work of the estimater more difficult than in a strictly hardwood country. Still the results so far as the yield of cordwood per acre is concerned are as accurate as will ever be obtained. The lands cut over include 34 forties or 1360 acres. The wood cut on these lands amount to 25207 cords or 182 cords per acre. From this will be seen that more than twice the acreage had to be gone over to get the above amount of wood than would have been the case had the land been well timbered. I trust you will bear this in mind when we come to take up the cost of hauling and loading the 8274 cords which we shipped from the location. Howies estimate covering this 1360 acres was 24125 cords of wood, 1,840,000 feet of maple logs. Reducing the logs to cordwood, increases the cord wood estimate by 4520 cords, making the total for the whole tract 28645. As a matter of fact although everything was closely cut- we only obtained 25207 cords- showing a difference between the estimates and actual results of 3438 cords or  $2\frac{1}{2}$  cords to the acre. The above will serve to illustrate the danger of buying and paying for cordwood stumpage on the estimates of cruisers or land lookers, and I would never agree to a purchase on such terms. Howies estimates show his typography to be very accurate but as to determining the amount of cordwood which will be actually obtained from a given discription- they are almost valueless.

#### HAULING MATHEWS JOB

The shipping of wood from the Mathews location commenced on the 22nd of May. We had less than 6000 cords of wood in sight. We purchased four wagons and as many teams and later increased the horses to fourteen in number. Owing to the very bad conditions existing it was found utterly impossible to use wagons. We resorted to the grease skid system which although expensive served its purpose and enable us through the worst conditions of mud to load a car of wood with a team. We lost three horses which are absorbed in the cost of hauling as shown by our monthly statements. The average costs for the year was 80¢ per cord on cars. This corresponds closely with predictions of all who have made a comparison between the Parsons and the Mathews tracts- including Mr. Redfern viz. that it would cost 20¢ more per cord to operate at Mathews than at Parsons. Our cost sheets show that the item of roads amount to 17.3 per cord, to which must be added nearly 7¢ per cord for dead horses. It has cost Caron & Rough about 2¢ per cord for roads on the Parsons tract. From this you will note how we have been handicapped through physical conditions and typography. You will doubtless remember that the particular part of the Mathews tract is very much broken, contained a large number of cradle knolls and was very wet. The country is full of springs which appear everywhere even on high ground. We are troubled just as much by too much water on the Mathews as we are by too little on the Parsons tract. This territory should have never been operated during the summer months and would not have been had it not been actually necessary for us to receive wood from this location in order to keep our furnace going. Since the swamps have partially frozen up we have succeeded in reducing our cost of hauling during last month to 53¢ per cord. This could be still further reduced by the cutting down of fixed charges were we working a larger force of teams. I do not think however that

we have lost by this experience, for the reason that we know exactly what it will cost us to haul wood under the most adverse natural conditions, both as regards typography and the weather. Neither is it likely that we will have such a heavy mortality among horses to be spread over such a comparative small number of cords. Neither will we have to go so far or make so many roads through lands yielding but 18% cords to the acre. Our plan is to continue shipment from the west side of the river this winter and reduce the 17000 cords remaining to two blocks of 4000 cords each- which will be taken out by the portable railway system when it is moved up from Parsons. In the meantime we hope to accumulate a large block of dry wood on the East side of Whitefish river which will last the track system for a couple of years. In that locality the timber is better and the yield will be larger per acre. We deemed it best to cut our poor lands while the price of chopping was high. You will note that the men only averaged a little over 30 cords per month and I think that our inability to get choppers at the start was largely due to the poor timber ahead of them.

### PURCHASE OF HARD WOOD LANDS

The only lands purchased by this Company during the preceding year were 1875 acres- known as the Jones tract- adjoining our Mathews tract on the west, at a total cost \$4906.06.or \$2.60 per acre. Deducting the value of other timber on this land will make the stumpage net us in the neighborhood of 6¢ per cord. The lands however are none of the best, will not run much over 20 cords to the acre. No other lands were offered to us which we deemed it worth while recommending. The 3500 acres owned by the Weston estate adjoining our Parsons group on the East are very desirable but the price of \$11.00 per acre put on them by the owners- put them out of the question.

#### LOT AND LAND SALES

The only lots sold in the City of Gladstone during the preceding year were three, viz. Nos. 11, 12 and 13, Block 6, Cen--tral Ave. addition to the Gladstone City Schools at \$125.00
each-making a total of \$375.00. We have located all the squatters on Govt. Lot 3 and have them under lease at \$1.00 a month
each. Our revenue from this source average about \$300.00 per year
which pays considerably over half our total City tax. We have
issued options on the Parsons tract amounting to 280 acres to
the following persons:-

Clifford Lyman 40 acres
John Sampson 80 "
Frank Lemay 80 "
Narius Poupour 80 "
Total:- 280 "

The following lands have been sold on the Parsons tract:-80 acres of very stoney land to Caron & Rough \$2.50 per acre cash, amounting to \$200.00.

80 acres to John Robare at \$5.00 per acre, quarter cash, the balance in three equal payments, making a total of \$400.

above, amounting to \$400.00.

The total value of the land sales therefore are \$980.00. Robare and St. Arnold availed themselves of options given them last year. Gaspard Guildette and Noel Deloria did not avail themselves of the options and forfeited their \$10.00 deposit. The lands sold to date on the Parsons tract amount to 800 acres. The price received for the same being \$3940.00 or about \$4.93 per acre. We have now under option at the Parsons tract 240 acres, price \$1200.00 or \$5.00 per acre. We now have under option at the Mathews tract 320 acres at \$5.00 per acre, amounting to \$1600.00- to the following parties, Henry Woolner 40 acres, August Cook 80 acres, Chas. Erickson 120 acres and And. Josephson 80 acres.

We received from options on Parsons land \$41.60, from the Mathews land \$60.00, making a total for the year of \$101.60.

# TAXES

The valuations in the City of Gladstone in common with all others was largely increased last year, being raised from \$365,000. to \$1,100,000.00. Our taxes for the year '99 were \$645.87. For 1900 \$550.91, being a decrease of \$94.96.A review of the tax roll showed that all property holders were treated alike.

### MASONVILLE TOWNSHIP

In this township the valuations were increased from about \$350,000.00 to \$900,000.00. Our taxes exclusive of the Mathews tract, which until this year were taken care of in the Negaunee office, \$4093.53 for the year '99. For 1900 they were \$3202.71, being a decrease of \$890.82. Our valuation was raised from 75 to \$245814.00. The valuation of the Mathews lands now handled in this office was placed at \$6.00 per acreexcept sections 30-43-21 which are placed at \$5.00. On these valuations that portion of the Mathews group in this township amount to \$358.93

### FORD RIVER TOWNSHIP

The valuations in Ford River township were not changed. Our personal property being \$1200.00 in both years. Our taxes in '99 on personal amounted to \$62.10. In 1900 \$26.35, showing a reduction of \$35.75. On the real ty the valuation was the same in both years-viz. \$1600.00. Our taxes for the year '99 were \$121,15. For 1900 \$52.73, showing a decrease of \$59.42. The total decrease in taxes in this township on reality and personal are therefore \$95.17.

### CHEMICAL PLANT

The chemical plant has been operated 365 days during the preceding year. This has been made possible by the duplicate machinery installed during the year '99 and the introduction of friction clutches admitting of the stoppage of a fan when necessary without shutting down the entire plant as heretofore. In a general way I may say that I am well satisfied with the operations of the plant and that the changes made during the preceding year have amply justified our recommendations. I will refer you to a detailed laboratory report, too large to incorporate with this, which will plainly show the different stages of operation and confine myself to general explanation and remarks. We have decreased the cost of alcothol over the preceding year 10.2%. Every heading in our cost sheet shows a decrease with the exception of barrels, which is due to an increase in price by the manufacturers. The most important item of reduction is that of 2¢ in the cost of fuel. This can be still further reduced by installing modern engines and pumps at the blast furnace. We expect in any event to make a reduction during the current year for the reason that we will obtain a more uniform supply of wood for our kilns and the same will be dry, which will largely improve the quantity and quality of our gas. While last year was a record breaker so far as the quantity of alcohol was concerned, we hope to do still better during the present one for reasons just stated. During the early part of the year we ran largely on green wod and during the spring and fall months suffered greatly from the insufficient supply of wood sent in to the furnace kilns. The total gallons of alcohol produced for the year was 146.165 as against 102,196 for the year 1899. This of course is not a fair showing as the chemical plant was shut down owing to repairs to the furnace during the year.

But the marked improvement will be shown on comparing it on the production of '98 which was one of our best years heretofore and amounted to 109,485 gallons. The other yields of course will not be effected by the shut down. The average gallons per day were 400.4 as against 3341 for the year '99. The gallons of alcohol per cord of wood was 344 as against 305 for the preceding year. This shows an increase of .39 gallons per cord for the years work. During the year we sank three artesian wells at the chemical plant to provide if possible a supply of cold water for the condensers. From these three wells we obtain enough water to supply our two final condensers at a mean temperature the year around of 40°. They have undoubtedly aided in the increase production of alcohol. Their total cost including piping was \$2077.32. An additional column and still to take the strain off the large column was installed at a cost of \$1673.64. At one time it looked as if the large column still would last but a short time longer and this still was put in to take its place should it give out. We however succeeded in patching the old still and it will have several months longer life. An air pump and condenser was installed to aid in the economy of fuel and has more than met our expectations. At the present time I do not feel disposed to recommend any further additions to the old plant. We will have considerable additions to make during this year and next under the head of maintenance. Our boiler plant is in none too good shape as the second hand boilers which we purchased from the Hematit mine are showing signs of giving out. We had quite a heavy maintenance charge last year for the renewal of condenser tubes and must look for increased maintenance charges from now on. We of course must expect a decrease in the yield of alcohol during the hot summer months. This can not be avoided. To show you what can be done however with our improved plant and cold water- would refer you to the month of December just passed.

It was 14928 gallons. It is true that the kilns were fairly well supplied with wood but as previously stated I shall be greatly disappointed if the yield of alcohol for 1901 does not materially increase over 1900.

#### RETORT PLANT

In the spring of 1900 I was instructed to look up the question of a retort plant and while it was clearly demonstrated that coal could not be produced as cheaply in retorts as in kilnsit was shown that the yield of alcohol and acetate of lime would be largely increased. I was authorized to construct a ten retort plant at an estimate cost of \$108.519.21 plus \$1295.28 for the extension of our coal storage trestle. Construction work was commenced on the 21st day of July and up to the end of the preceding year about 80 percent of the total work had been accomplished. I think the cost of the plant will come within the estimates. At this writing operations have not progressed far enough to admit of an expression of an opinion one way or the other. In any event this will come under the head of next years report. The chief difficulty to contend with is the firing of the retorts by coal and its practicability on large retorts is still to be demonstrated, our plant being the first to undertake it. The refining department has already proved itself an unqualified success.

### ACETATE PLANT

There was produced 1,769,908 pounds as against 1,324,956 pounds for the preceding year, being an increase of 444,952 pounds. The average per day for the year '99 was 4348 as against 4875 for 1900, being an increase of 527 pounds per working day. There were no additions made to this plant during the current year. The average cost for the year '99 was 41.4¢ per 100 pounds. For the

year 1900 36.8¢, being a reduction 4.6¢ per 100 pounds. The yield of acetate per cord of wood for the year '99 was 40 pounds. For 1900 41.7 pounds. The operations for the year have been very satisfactory.

#### GENERAL REMARKS

I have endeavored in this report to cover fully the ground gone over during the preceding year, and if it is not as full as you desire I beg your kind indulgence and state in explanation that during its entire writing I have been busily engaged starting up the new retort plant and have met with all the annoyances instant to the starting up of new works. Have also had representatives of the manufacturers here in consultation regarding the pumping machinery for our new furnace and the apparatus for our new chemical plant. I have made my recommendations under different headings in the body of the report anddo not care to add anything more. Original research hasbeen carried on in the laboratory from time to time with a view to utilizing still further our by-products but I have no information of value to impart. I have endeavored to explain fully any differences that haw arrisen in the cost of production and apparent discrepancies in comparative statements. These explanations have been as full and complete as possible, are exactly as they appear to me and I do not know that I can make any others should they be required. We will undoubtedly succeed in materially reducing the cost of our coal for the current year and also hope to reduce our operating expenses as soon as the new retort plant is well under way and we are enabled to secure a sufficient supply of charcoal to run our furnace up to her capacity.

Trusting this report will be satisfactory and meet your approval, the same is,

Respectfully submitted,

Manager

Gladstone, Mich., Jan 15th, 1901.

year 1900 36.8¢, being a reduction 4.6¢ per 100 pounds. The yield of acetate per cord of wood for the year '99 was 40 pounds. For 1900 41.7 pounds. The operations for the year have been very satisfactory.

#### GENERAL REMARKS

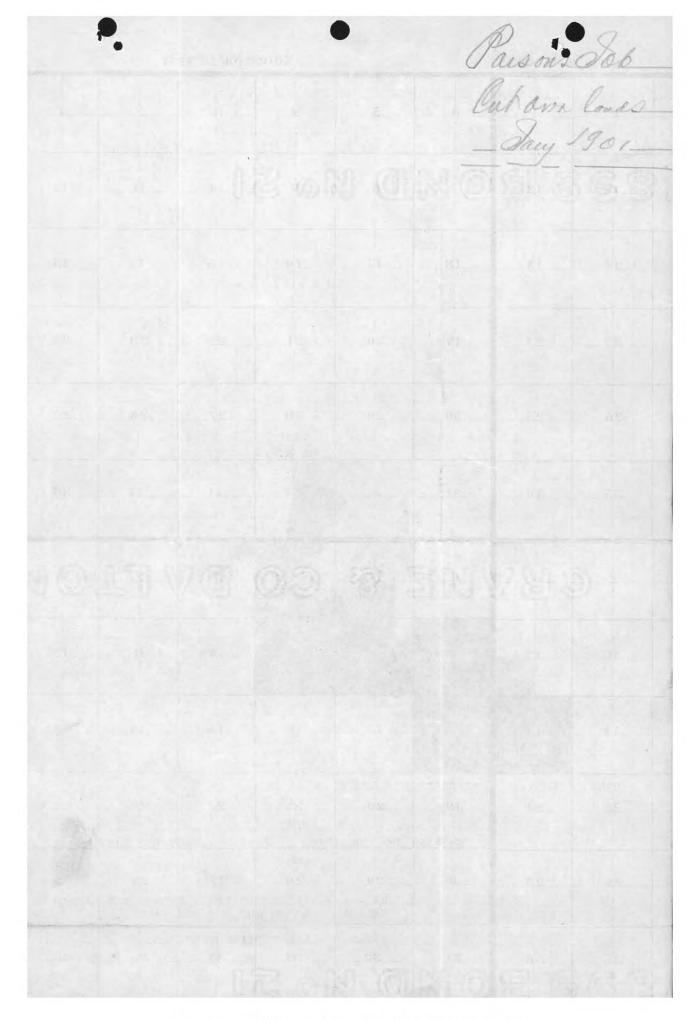
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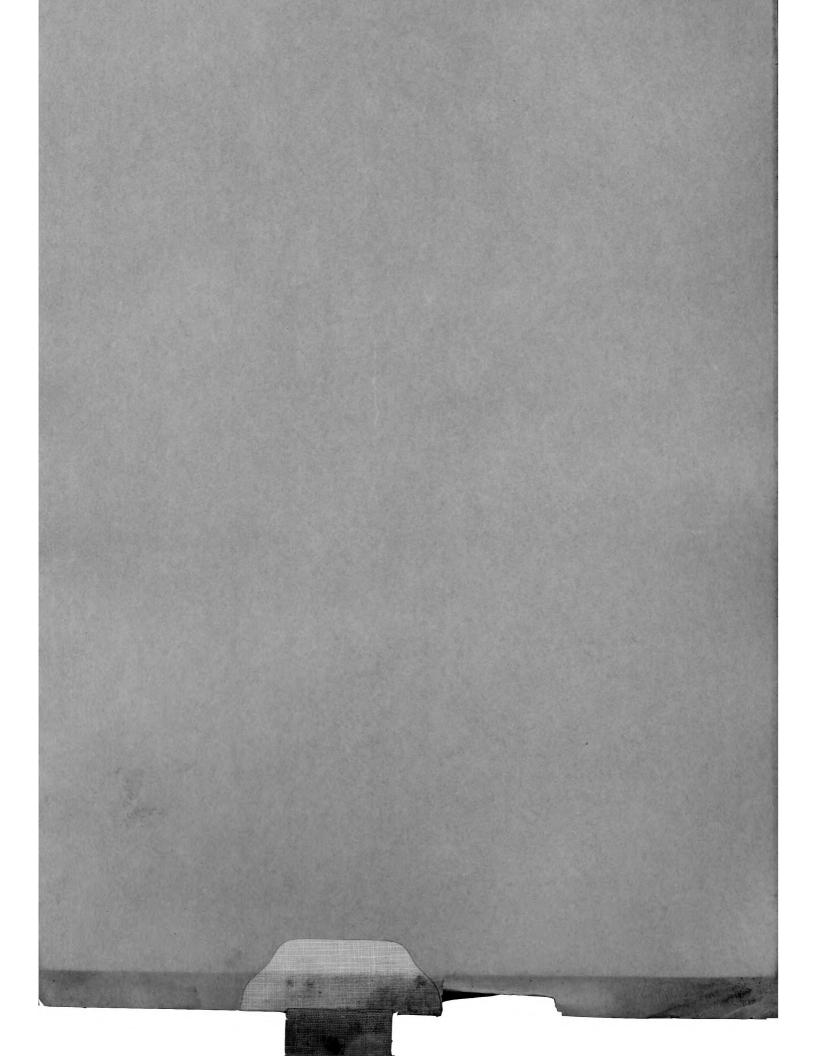
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Manager

Gladstone, Mich., Jan 15th, 1901.





700 + 701 + MMMMMM MAMMAM MMMM MMMM MM 1900 MOX XX MA MA MX MM INVENTORY 図図 MA MM MM MM THE CLEVELAND CLIFFS IRON COMPANY MM KIN XX 図図 MM MM MX MM PIONEER FURNACE MM MM MM CXCX MAMA GLADSTONE MICHIGAN MMMM MMMM DEED MMMMMM MAMMAM

# TRIAL BALANCE OF ACCOUNTS

Furnace Supplies	9384.61
Chemical Supplies	987.00
Laboratory Supplies	130.06
Retort Supplies	9307.77
Mathews Barn Supplies TOTAL SUPPLIES	286.48
Carts, Wagons & Horses	1699.81
Charcoal Cars	6885.93
Coal Buggies	291.63
Charcoal gram cars	10.61
Launch	386.41
Scales	1068.98
Telephones	30.25
Machine Shop Machinery	1459.20
Brown Pyrometer	43.40
Testing Machinery	395.89
Blacksmith Shop Machinery	399.49 —
Office Furniture & Fixtures	508.70
Ore Buggies	199.62
Kiln Barrows	48.93
Locomotive	2802.35
Pig Iron Loaders	202.57
Pig Iron Tracks	1049.17
Furnace Scow	7.98
Laboratory	308.51
TOTAL FURNACE EQUIPMENT	17799.43
Mathews Barn Equipment	2743.41
GRAND TOTAL SUPPLIES	\$ 40638.76

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# SUPPLIES-1-TO -24-INCLUSIVE

Furnace Supplies	1 to 21 Inclusive
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	33
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	37
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Cimier Tools	42
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Alum	16
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Brooms	1
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Bends (Return)	16 & 12
Bars	16
Borax Bran	,16
Burners	17
Brushes	17
Brick	18
Bell & Hopper	20
Derr a noppor	20
Clips(Crosby)	3
Cap Bolts	4
Carriage Bolts	5
Couplings	9-10-12-13
Crosses	13 & 15
Crushed Buckets	16
Copper Plates	16
Cement	16
Coal	16-& 18
Coke	16
Camlles	17
Chimneys	17
Clay (Fire)	18
Coolers (Furnace)	20 20
" Tuyre	20
Drills	8
777	10-11-13-14-15
Elbows Electrict Lightb Supplies	17
Frechice might puppings	
Flues	2
Flour	3
Fire Bolts	5
Flanges	10.
Feed	16
Faucets	18
Fans	18
Files	19
Grease Cups	1
" " Glasses	i
" " Locomotive	1 2 3 3
Grease (Belt)	3
Gaskets(Ecliopse )	3
Gasket Cloth	6
Graphite	16
Glass Globes	17
Glass(Window)	16
Hammer(Striking)	1 2
Hose (Steam)	2
" (Water)	3
Hamiles	16
Hay Hinges	18
11711800	

Iron-Merchant	1
" Octagon	ī
" Swedish	1,
" Galvanized	16
Internal Gear	20
Lubricators	1
Lead	3 4
Lag Screws	16
Links-Bucket Lumber	18
number	10
Magnolia Metal	3
Machine Bolts	5
Middlings	16
Nuts	3
Nails	7. & 16
Nipples	12
Oilers	2
Oil Cans	2 16
Ore Buggy B xes	16
Oats	10
Pole Picks	1
Pickeroons	ī
Pails	3
Packing	6
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" (Sand)	16
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Steel	1
Steel (Tool)	1
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Tees	10 & 15
Tubing	16
Torches	17
Tile	18
Unions	10 & 15
Valves	7-10-11-12
Wire	2
Washers	2 3 & 7
Wrenches	6
Water Glasses	7
Way Cocks	11
Wheels	16
Wagon Sheins	16
White Lead	16
Wicks	17

# FURNACE SUPPLIES

32 LARGE SCRAPERS 8 SMALL ** 45 POLE PICKS 50 BROOMS 23 PICKEROONS 1 6 Ft. STEP LADDER	@ 65¢ @ 45¢ @ 50¢ @ 35¢ @ 25¢	20.80 3.60 22.50 17.50 5.75
1 69# STRIKING HAMMER	@ 6¢ Per Lb.	4.14
31259# MERCHANT IRON	@ 2-3/4¢ Per Lb.	859.62
153# 1" OCTAGON IRON 527# 1-1/8" " " 770# 1-1/4" " " 282# 1-3/8" " " 662# 1-1/2# " " 80# 1-5/16" " " "		
477# 1.5/8" " " " 2951# " "	@ 6¢ Per Lb.	177.06
65# 1/8" STEEL 170# 3/8" " 266# 1/2" " 495# 5/8" " 570# 3/4" " 57# 7/8" " 51# 15/16" " 408# 1" " 221# 1-3/8" " 594# 1-1/2" " 2530# 1-3/4" " 44# 5/8 X 3" " 5471# "	@ 6¢	<b>32</b> 8 • <b>2</b> 6
39# 1 X 1 SWEDISH IRON 313# 2 X 2 " "		
352# " "	@ 5¢	17.60
121# TOOL STEEL	@ 6¢ Per Lb.	7.26
1 No.2 GREASE CUP 2 No.2 NICKLE PLTD GREASE CUPS 8 No.1 BRASS GREASE CUPS 1 No.2 6 No.3 MARINE FEED CUPS 2 20Z OIL CUPS 11 No.2 OIL CUP GLASSES 1 No.2-1/2 OIL CUP GLASSES	@ 15¢ @ 50¢ @ 20¢ @ 25¢ @ 50¢ @ 10¢ @ 10¢	.15 1.00 1.60 .25 3.00 .20 1.10
12 1 Qt. HILL & MCGANNAS LUBRICA 5 LUBRICATORS	TORS @ \$10.50 Each @ 2.00 "	126.00
		\$1608.24

6 No. 13 BRONZE OILERS	@ 15¢	•90
8 GREASE CUPS FOR LOCOMOTIVE	@ 1.00	8.00
4 CYLINDER COCKS	@ 50¢	2.00
1 5 GAL. GALVANIZED OIL CAN 2 1 QT. OIL CANS 3 1 GAL. JACKET OIL CANS 22 2 " " " " 20 3 " " " " 14 5 " " " " 50 FT. 3/4" STEAM HOSE 100 " 1" WATER "	@ 50¢ .50 @ 15¢ .30 @ 23¢ .69 @ 23¢ 5.06 @ 35¢ 7.00 @ 40¢ 5.60 @ 83¢ 41.50 @ 50¢ 50.00	19.15
LESS 50 & 10%	91.50	41.18
50 Ft. 3/4" WATER HOSE 30 " 1-1/4" " "	@ 9¢ Net @ 45¢ "	4.50 13.50
300 1/4 X 1-1/2" SPLIT PINS 75 1/8 X 1 100 1/8 X 1/2 60 3/8 X 2-1/2 133 3/16 X 1 175 3/16 X 1-1/2 150 3/16 X 2 993	@ 1/2¢ Each	4.97
3# No.6 BRASS SPRING WIRE 7# No.7 " " " 115# No.8 " " " 39# No.9 " " " 2# No.10 " " "		
206# " " "	@ 22\$	45.32
3-1/2# STOVE PIPE WIRE 1-1/2# SPRING STEEL WIRE	@ \$1.00	1.50
5 Gross 1-3/4 No. 12 WOOD SCRE 7 " 2" No.12 " " 1 " 2" No.9 RD. HD. " 2 " 2-1/2"No.18 "	WS @ \$1.70 Per Gross @ 1.80 " " @ 1.50 " " @ 4.35 " "	8.50 12.60 1.50 8.70
76 • 4" 16 Ft. STRAIGHT 34 4" 17 Ft. BENT	FLUES @ 35¢Per Ft. @ 35¢	\$ 800.68

70# 3/8"	WASHERS	@ 6¢ Per Pound	4.20 4.20
140# 5/8	7	@ 4¢ " "	5.60
72# 1/4	•	@ 6¢ " "	4.32
55# 1/2"		@ 44 " "	2.20
		@ 3-1/2/ Per Pound	•70
20# 7/8			2.63
75# 1-1/		@ 3-1/2 " " "	
20# 1-1/	4 "	@ 3-1/2¢ " "	•70
210# 3/8"	NUTS	@ llg Per Pound	23.10
210# 3/0"	MOTO		11.52
192# 1/2"	,,	6 00 2	6.18
103# 5/8"		0 0/-	13.15
263# 3/4"			
150# 7/8"		9 ± 2	6.00
70# 1"		e = 2 /	2.80
250# 1-1/	4" "	@ 4g " "	10.00
54 92 H	ACK SAW BLADES	@ 7¢ each	3.78
78# MAGN	OLIA METAL	@ 25 / Per 1b.	19.50
44# TIN		@ 25¢	11.00
24# BING	HAM SOLDER	@ 25%	6.00
26# LEAD		Ø 6¢	1.56
		,	
20# BELT	GREASE	@ 15¢	3.00
18# RYE	FLOUR	@ 24	•36
	E CROSBY CLIPS	@ 25¢ Each	•50
	SPRINGS	@ 10¢ Each	.30
1-1/2 Ga	als GRAPHITUM OIL	@ 50¢	.75
/			
28-1/4#	ECLIPSE GASKETS		
7-1/2			
3-3/4	7 7		00.40
39-1/2#	" "	@ 75¢ Per Lb.	29.62
10 WOOD	EN PAILS	@ 20 / Each	2.00
			1.00
5 GALV	ANIZED IRON PAILS	@ 20% "	1.00
61 SLEI	GE HANDLES	@ 20%	* 12.20
			42.40
	are POINT SHOVEL HAD	" @ 15¢	27.90
12 PICE		e Tob	1.80
22 AXE	BODY	* @ 25¢ * @ 25¢	5.50
	L FORK	e wop	3.75
	RY SHOVEL	@ 20p	4.60
	E POLE	® 50¢	2.50
8 MACI	HINE HAMMER	" @ 10¢	•80
45 ROUI	ND POINT SHOVELS	" @ 65¢	29.25
36 SQU		" @ 65¢	23.40
8 SC00		@\$1.10	8.80
	HANDLED SQUARE PT		11.90
20 "		" @ 85¢	17.00
	L FORKS	@\$2.00	120.00
12 HOE			4.80
TE HOE		@ <b>40</b> ¢	4.00

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.49
     1/8 X 5/8 RD HEAD STOVE BOLTS @ 85¢ Per 100
     1/4 X 3/4 " "
                                    99
                                         @ $1.00 "
                              **
                                                                  .43
 43
     1/4 X 1
                                         @ L.05 "
                                                                 1.68
160
                                                                 2.60
                LESS 70%
                                                                              .78
     3/8 X 3/4 FLAT HD STOVE BOLTS@ $2.50 Per 100 1/4 X 1/2 " " " @ .90 1/4 X 1-1/2 " " " @ 1.05 " "
                                                                 1.00
 40
                                                                 1.71
190
                                                                 1.03
                 LESS 70%
                                                                 3.74
                                                                             1.12
     3/4 X 4 FISH PLATE BOLTS @ $9.70 Per 100 Less 75% 1.46
15
                                                                              .36
     5/16 X 1
                                                                 1.57
                                   @ $3.50 Per 100
                    CAP
                          BOLTS
      5/16 X 1-1/2 "
                                                                 1.76
                                   @
                                       3.75
 47
     3/8 X 1
3/8 X 1-1/2
                                                                 1.68
 42
                                   0
                                       4.00
                                                                 4.05
 90
                                   0
                                      4.50
     1/4 X 1-1/2
  8
                                       3.75
                                                                   .30
     5/8 X 1-1/2
                                   @ 10.00
                                                                10.60
106
     5/8 X 3
                                                                 3.23
 22
                                   @ 14.70
     7/16 X 1-1/4 "
                                                                 2.80
                           -
                                   0
                                      5.00
 56
      7/16 X 2-11/2"
                                                                 1.56
                                       6.80
 23
                                   0
     7/16 X 3
9/16 X 3
1-1/2 X 1/4
                           **
                                                                   .64
  9
                                   0
                                      7.10
                                                                 1.57
13
                                   @ 12,10
  3
                                       3.75
                                                                   .19
                 LESS 70%
                                                                29.95
                                                                             8.99
     7/16 X 5/8 SET
                                                                 1.47
                            SCREWS@ $3.60 Per 160
 41
                                 " @
                                       3.60
                                                                  .79
     7/16 X 1
                     **
 22
      1/2 x 1/2
                                 " @
                                                                 1.28
 32
                                       4.00
 42
      1/2 X 3/4
                                   0
                                       4.00
                                                                 1.68
      1/2 X 1
9/16 X 3/4
 31
                                   @
                                       4.50
                                                                 1.40
                                                                  .90
                                 **
                                                  **
 19
                                   0
                                       5.30
      9/16 X 1
                                                  **
                                   0
                                                                 1.17
22
                                       5.30
      5/8 X 3/4
                                 " @
                                                                 1.81
 29
                                       6.25
 19 5/8 X 1
6 m 7/8 X 1-1/2
                                 " @
                                                                 1.19
                                       6.25
                                 " @ 14.10
                                                                   .84
                                                                             2.51
                  LESS 80%
                                                                12.53
      5/16 X 2
                                                                 1.29
                                   @ $2.45 Per 100
                   LAG
                         SCREWS
 53
      3/8 X 3
1/2 X 2-1/2
1/2 X 4
                    *
                                   @ 3.48
                                              *
                                                  Ħ
                                                                  .24
  7
                                                                  7.38
165
                                   0
                                      4.47
 36
                                   @ 5.55
                                                                 2.00
 50
      5/8 X 2
                                   @
                                      5.00
                                                                 2.50
      5/8 X 3
                                                  -
                                                                  5.40
  9
                                   @ 6.00
      3/4 X
                                   @ 10.00
                                                                  .40
               4
                  LESS 80%
                                                                19.18
                                                                              3.84
                                                                           $17.60
```

```
117
      1/4 X 1-1/2
                        MACHINE BOLTS
                                            @ $1.70 Per 100
                                                                     $1.99
      1/4 X 2
3/8 X 1"
                                                1.78
                                                                        .40
 23
                                            0
                                                                        .98
 41
                                                2.40
                                            0
      3/8 X 2"
                                     *
                                                2.56
                                                           **
                                                                       2.41
 94
      3/8 X 2-1/2"
                                     **
                                                2.72
                                                                       2.47
 91
        2 X 1
2 X 1-1/2
2 X 2"
                                                                        .68
                                                3.60
 19
                                            0
                                                                       1.73
 48
                                            0
                                                3.60
128
                                                3.86
                                                                       4.94
        2 X 2-1/2
2 X 3
                             99
                                                4.12
                                                                       3.21
 78
295
                                                4.38
                                                                     12.92
        2 X 3-1/2
                                                4.64
                                                                       8.26
                                            @
178
                                                4.90
 54
         2 X 4
                                            @
                                                                       2.64
                                                5/42
        2 X 5
                                            0
                                                                       3.41
 63
        2 X 6
                             **
                                     **
                                                5.94
                                                                     10.69
180
      5/8 X 2
5/8 X 2-1/2
5/8 X 3
                                            0
                                                5.58
                                                                       6.14
11
                                                5.96
                                                                       2.38
 40
                                             0
                                     **
                                                6.34
                                                                      8.24
130
                                             0
      5/8 X 4
5/8 X 4-1/2
                             **
                                                7.10
                                                                     21.66
305
                                             @
                                                 7.48
                                                                       3.59
 48
      5/8 X 5
5/8 X 5-1/2
                                                7.86
                                                                       1.10
 14
                                             0
                                     *
                                                        *
 60
                                             0
                                                8.24
                                                                       4.94
                                                         99
 52
      5/8 X 6
                                             0
                                                8.62
                                                                       4.48
      3/4 X 2
34 X 3
3/4 X 8
                                                         *
                                                                        .69
                                                 7.70
  9
                                                 8.70
                                                                       1.74
 20
                                             0
                                                                       1.37
                                             @ 13.70
 10
                   LESS 75%
                                                                    113.16
                                                                                    28.28
      3/16 X 1-1/2
                      FIRE BOLTS
                                                $1.00 per 100
 38
                                             0
                                                                        .38
      3/16 X2
                                                  1.08
                                                                        .65
 60
                                             @
      3/16 X 2-1/4
                                                  1.12
                                                                       2.11
189
                                             0
                                                                        .50
 50
      3/8 X 1
                                                 1.00
      5/16 X 2-1/4
1/4 X 3
                                                         **
                                             0
                                                 1.35
                                                                        .78
 58
                                                 1.24
                                                                        .37
 30
                   LESS 50%
                                                                       4.79
                                                                                    2.39
      3/16 X 2-1/2 CARRIAGE BOLTS
 60
                                             @ $1.16 Per
                                                            100
                                                                        .70
      5/6 X 1-1/2
 95
                                             0
                                                 1.20
                                                                       1.14
      5/16 X 2
5/16 X 4
5/16 X 4=1/2
3/8 X 2=1/2
3/8 X 3
                                                 1.30
 78
                                             @
                                                                       1.01
                                    *
                                                 1.70
                                                                       2.72
160
                                                 1.75
                                                                       2.63
150
                                                                        .75
                                                 1.50
 50
                                             0
                                                 1.64
                                                                       2.87
175
                                             @
                                                 1.78
                                                                       1.99
112
      3/8 X 3-1/2
                                                 1.92
                                                                        .90
 47
                                             0
      3/8 X 4-1/2
                                                 2.20
 54
                                             0
                                                                       1.19
      3/8 X 5
                                             0
                                                2.34
                                                                       1.24
 53
      3/8 X 6
3/8 X 10
                                                                       8.12
                                             0
                                                 2.62
310
                                                 3.74
                                                                       1.23
 33
       7/16 X 3-1/2
                                                                       2.55
 95
                                             0
                                                 2.68
       1/4 X 3-1/2
1/4 X 5
100
                                                 1.32
                                                                       1.32
  72
                                                 1.56
                                                                       1.12
                   LESS 70%
                                                                      31.48
                                                                                    9.47
```

40.14

3	6"	MONKEY W	RENCHES	@ \$9.00	Per Dz.	2.25	
3	8"		**	@ 10.00	# #	2.50	
7	12"				Each	8.75	
2	15"	n	#	@ 2.00		4.00	
5	21"	11	•	@ 3.00		15.00	
		Le	ss 40%			32.50	19.50
7		COTTTOOL	T WINDHALL TO A	a 40 00	77		
3	6" 9"	STILLSON	WRENCHES	@ \$2.00		6.00	
1				@ 2.00		2,00 3,00	
1	14"			@ 3.00			
4	18"			@ 4.00	"	16.00	
		LE	ISS 55%			27.00	12.15
5-3	/4# 1	" ELASTI	C PACKING	@ 40\$			2.30
3-1	/4# 1	/4" NOX-	LL PISTON	PACKTNO	@ 40¢		1.30
50#	1 1	/4" RUBE	BER GASKETI	NG	@ \$1.00		50.00
. "							
43	5-1/4#	-1/16 RA	INBOW PACK	ING	@ 50¢		21.62
113	#	1/8"			@ 50¢		56.50
42-	3/4#	GASKET	CLOTH		@ 25¢		10.69
2-	3/4#	1/32" RUE	BERBESTOES		@ 70¢		1.92
		1/16"	"		@ 70¢		4.20
5#	- 5/	8" METAT.	C ASBESTOS	PACKTNO	@ 70¢		3.50
	1/2#-	1/4" GERM	IAN *	W	@70¢		2.45
3#	-, -,	1/2" "	***		@ 70%		2.10
3# 7#	Ł	1" "			@ 70¢		4.90
30#			RE PACKING				
11	1/4						
58	1/2						
20	3/4	" "					
45	9/1	.6" "					
45	5/8						
	1/4-	T			@ 55¢		118.39
23		SBESTOS W			@25¢		5.75
2	#_/	5/8 X 2	GARLOCK R	ING PACKING			The second
2	-3/4	-5/8 X 24	1/2		0		
2	#	7/16 X 3/ 7/16 X 1	4 "	11 11			
- 8	3-3/4#	// TO Y T			@ 55¢ pe	er lb. net	4.81
			K SPIRIAL	PACKING			
1# 2# 2# 1#	1/2	n u	M DI TUTATI	HOLLING			
24	5/8	n n		11			
14	# 7/1	6" "	11				
6-	1/2#	"	11		@ 55¢ pe	er lb. net	3.57

```
Water Glasses 1/2 X 12
10
                    5/8 X 14
5/8 X 16
 91
 22
                    3/4 X 20
 50
173
                    @ 20¢ Each
                                                               34.60
     Lengths 1" Asbestoes Pipe Covering @ 10¢ per length
                                                                 .50
 5
                                      @ 20¢ ",
@ 20¢ "
                            11 11
            4"
                                                                 .40
                                  **
       **
             6"
  2
                                                                 .40
                                  99
                                       @ 20% "
       *
  1
             7#
                                                                 .20
                                       @ 10 % Each
@ 10 % "
@ 20 % "
                                  **
             1"
                                                                 .10
  1
      TEE
                                  **
                    99
                                                                 .20
  2
             2"
  1
     6" Asbestoes Tee Cover
                                                                 $20
                                       @ 25¢ "
                                                                1.25
     Soft Plugs
    PUTMAN HORSE SHOE NAILS #4
  3
               **
                         *
                              7
                    *
  4
                    11
  5
                         **
                              8
               **
                    **
                         -
                              9
  4
                         *
  4
               **
                    **
                             10
                              @ 20g per pound
                                                                4.80
 75# 4d COMMON NAILS
                              @ $2.85 per 100
                                                 2.14
             .
 300# 8d "
                              @ 2.60 "
                                                7.80
                              @ 2.55 "
 200# 10d
                                                 5.10
                             @ 2.50 "
                                           **
 225# 40d
                                                 5.62
 100# 60d
                             @ 2.50
                                                 2.50
                                                 23.16
                                                               23.16
  7# #3 HARD RUBBER VALVES
  9# #3-1/2 "
 15# #4
 30# #4-1/2
     #5-1/2 Hard Rubber Valves
                                                                77.00
                              @ $1.00 per pound
 76 11-1/4 X 7 LEATHER VALVES @ 10 Each
                                                                7.60
     15-1/2 X 6
                             " @ 20¢ "
                                                                8.80
 125 3/4"
            LEATHER WASHERS @ $1.75 Per 100
                                                2.49
     7/8
                              @ 2.00 "
 100
                       **
                                                  2.00
                       97
                              @ 2.25 "
                                                  4.50
 200 1"
      1-1/8"
                             @ 2.50
                                                  5.00
 200
             Less 80%
                                                                2.74
                                                 13.69
 3-1/4# -3/8" Rubberbestoes Gaskets @ 70g net
                                                                2.27
                                                               11.00
 4 Bags Asbestoes
                                @ $2.75 per bag
                                                             $175.22
```

```
15/64
22
            TWIST DRILLS
                               @ $2.90 per dz.
                                                     5.56
     19/64 21/64
                               @ 3.90 "
 5
                                              **
                                                     1.62
                                @ 4.50 "
 6
                                                     2.25
 7
     23/64
                                              **
                                @ 5.10
                                                     2.97
     25/64 27/64
 9
                                @ 5.70
                                                     4.27
              *
                                              **
 2
                                         **
                                0
                                  6.40
                                                     1.07
                                         .
 6
     29/64
                                @ 7.20
                                                     3.60
     31/64
                                @ 7.75
                                                     3.23
                Less 60 & 10%
                                                    24.57
                                                                    $ 8.36
     5/32
             TWIST DRILLS
 3
                                @ 1.80 per dz.
                                                      .45
     7/32 9/32
 6
                                             **
                                @ 2.65
                                                      1.33
                                @ 3.65
10
                                                     3.04
                                             *
     11/32
 8
                                @ 4.80
                                                     3.20
      3/16
5/16
7/16
 3
                                @
                                   2.20
                                             **
                                                      .55
 3
                                @ 4.20
                                             *
                                                      1.05
                                @ 6.80
                                             **
 3
                                         77
                                                      1.70
                                             -
                                                      •73
      1/8
                                @ 1.45 "
 6
                                @ 5.40 "
      3/8
                                             **
 6
                                                      2.70
                                @
12
                                   3,15
                                                      3,15
 9
                                   8.00
                                                      6.00
                Less 60%
                                                                      9.58
                                                     23.90
     13/32
 5
             TWIST DRILLS
                                                     4.25
                                @ .85 Each
     15/32
17/32
21/32
25/32
 5
                                0
                                   .95
                                                     4.75
 9
                                @ 1.10
                                                     9.90
                                   1.50
 1
                                0
                                                      1.50
 1
              **
                                @ 2.00
                                                     2.00
     29/32
 1
                                @ 2.60
                                                     2.60
     9/16
 9
                                @ 1.20
                                                     10.80
 2
                                @
                                   1.60
                                                      8.20
 3
     5/8
                                @ 1.40
                                           *
                                                     4.20
 1
       7/8
                                           77
                                                     2.45
                                @ 2.45
 2
                                @ 1.85
                                                      3.70
       3/4
       1-1/32 "
                                @ 3.20
 1
                                                      3.20
       1/16
                                                      3.40
 1
                                0
                                   3.40
                Less 35%
                                                     55.95
                                                                     36.37
      1/2 X 1/32-13 TAPS
                             @ $1.00 Each
                                                      1.00
 1
      3/4 X 1/32-10 "
                               @ 1.60
                                                      1.60
                                                                      1.04
                 Less 60%
                                                      2.60
  70# 3/16 X 2 RIVETS
 310 3/8 X 1/2
25 3/8 X 1
      3/8 X 2
 155
      1/4 X 1/2
 137
      1/4 X 1
 100
     1/4 X 2
  85
      5/16 X 3/4 "
 37
      1/2 X 2
  35
                                                                      66.78
                                 @ 7¢ net
 954#
  61# Toe Calks
                                 @ 4g per 1b.
                                                                       2.44
                                                                       1.00
      Luckenheimer Water Gauges @ 50¢ each
                                                                    $125.57
```

9	1/4"	FAIRBANKS BRASS VA	LVE DISCS	@10¢		.90
12	1/2"	# #	" "	@ 10%		1.20
20	3/4"	и и		@ 10%		2.00
35	1"		# #	@ 12¢		4.20
36	1-1/4"		" 2"	@ 18¢		6.48
1	1-1/2"		N	@ 22¢		.22
5	2"		11 11	@ 30%		1.50
11	3"		11 11	@ 60¢		6.60
23	1/4" X			@ 10¢	2.30	
8	3/4" X	3/8" " "		@ 21¢	1.68	
4	1" X 3/ 2-1/2"	8" " "		@ 38¢	1.52	
5	2-1/2"	X 2" " "		@1.50 _	7.50	
		Less & 70 & 10%			13.00	3.51
334	- / -					
2 1 9	1/8"	BRASS UNIONS		@ 32¢	.64	
1	1/4"	" "		@ 36¢	•36	
9	3/4"			@ 90¢ _	8.10	
		Less 70 & 10%			9.10	2.46
9 1 6 2	10	BRASS COUPLINGS		@ 50¢	4.50	
1	1-1/4"	",		@ 60¢	.60	
6	2"	, ,		@1.35	8.10	
2	2-1/2"			@2.40	4.80	
		Less 70 & 10%			18.00	4.86
13	3/4"	BRASS ELBOWS		@ 70¢	9.10	
12	1-1/4"	W W		@1.50	18.00	
27	1-1/2"	n n		@2.00	54.00	
1	2"	и и		@3.00	3.00	
	-	Less 70 & 10%		_	84.10	22.71
6	2" BR	ASS RETURN BENDS @	3.50 Less	70 & 10%	21.00	5.67
6	3/4"	BRASS TEES		@ \$1.00	6.00	
6 1 6 3	1"	H H		@ 1.35	1.35	
6	1-1/4"	N 11		@ 2.00	12.00	
3	2"			@ 4.50	13.50	
		Less 70 & 10%			32.85	8.87
1	1-1/4"	BRASS Vross		@\$2.75 less	70&10%	.74
1	1-1/2"	BRASS FLANGES		@ 2.50 "		•68
1	3/4"	BALL JOUNT UNIONS		@\$1.00		1.00
2	8" F	IPE TAPS		@ 40 os	5 70	
2	6 P	Less 75%		@ \$2.85	5.70	1.43
		11600 10/0				70.50
						\$75.03

21 2	1/8"	ANGIE GLOBE VALVES	@ 72¢ @3.50	15.12 7.00	_
		Less 75%		22.12	5.53
2 8	1-1/2"	STRAIGHTWAY BRASS G	ATE VALVES @7.10	14.20	
		Less 75%		14.95	3.74
6 5 5 7	1/2"	FAIRBANKS BRASS GL	OBE VLAVES @ \$1.6		
5	1"	" "	" " @ 2.8		
7	1-1/4"		" " @ 4.0		
6	2"		" @ 8.0		
		Less 60 & 10%		111.60	40.18
7	3/4"	FAIRBANKS ANGLE VA	LVES @ \$2.4	0 2.40	
5	1"	TAINDAIND ANGLE VA	@ 2.8		
		To 22 60 % 304		16.40	5.90
		Less 60 & 10%		10.40	3.90
6	3/4"	GLOBE VALVES	@ \$1.2	6 7.56	
6 3 1	1-1/2	n n	@2.52	7.56	
1	2-1/2"	" "	@ 10.0		
		Less 75%		25.12	6.28
1	2-1/2"	CAST BODY GATE VALV	ES @\$12.0	0 12.00	
1	3"	n n n	@ 15.0		
1	5"	n n n n	@ 2.5		
		Less 75%		29.50	7.38
1	1-1/4"	FOUR WAY COCK			14.00
ī	1/1/4"	THREE WAY BRASS CO	CK @ 5.75 Tess 60	2013	2.07
ī	1-1/4"	Syphon	on & Colo none	,002.0/0	5.00
1	1"	WAY COCK	@ 2.35 Less 75	5%	.59
1	2"	BRASS LEVER GATE VA			2.50
1	3/4"	ANGLE CHECK VALVES	@ \$1.15	1.15	
1 4 1 3	1"	и и	@ 1.60	6.40	
1	1-1/4"	и и и	@ 2.25	2.25	
3	1-1/2"	" "	@ 3.15	9.45	
		Less 75%		19.25	4.81
2	1/4" 5	TRAIGHTWAY CHECK VAI	IVES @ 65¢	1.30	
6	1"		@ 1.60	9.60	
6 3	1-1/2"	n n	@ 3.15	9.45	
		Less 75%		20.35	5.09
2	1-1/4"	THREEWAY BRASS ELBO	WS \$1.50	3.00	
~	/	Less %0 & 10%	,J	0.00	.81
					\$ 103.88

1)

```
3/4" X 1/8"
1/2" X 1/4"
1/2" X 3/8"
3/4 X 3/8"
1" X 1/2"
1-1/2" X 1/2"
16
                     REDUCING COUPLINGS
                                               @ 10¢
                                                           1.60
                                               @ 5¢
7
                                                          $35
24
                                               @ 5¢
                                                           1.20
                                                           .70
                                               @ 10%
 7
 1
                                               @ 16%
                                                            .16
 3
                                               @ 28%
                                          0
                                                            $84
     2" X 3/4"
2-1/2" X 2"
2 X 1-1/4"
 1
                                          0
                                               @ 45%
                                                            .45
                                               @ 70%
 3
                                                           2.10
20
                                          *
                                                          9.00
                                               @ 45¢
     3" X 2-1/"
 6
                                               @1.00
                                                           6.00
     5" X 4"
                                               @2.00
                                                         18.00
                 Less 60 & 10%
                                                         40.40
                                                                        14.55
     1/2"
 6
             THREE WAY ELBOWS
                                               @ 100
                                                            .60
                                                           .90
 5
                                               @18¢
     1-1/4"
 6
               -
                             -
                                                           2.70
                                                @ 45%
                                                          8.00
                                                @1.00
                 Less 75 & 10%
                                                         12.20
                                                                         2.75
     1/4"
3/8"
1/2"
 9
              SHORT NIPPLES
                                                @ 40
                                                            .36
                                                           $10
 3
                *
                                                @ 44
                                               @ 5¢
 2
 7
      3/4"
                                                @ 60
                                                           .42
                                                           .80
10
                                                @ 8¢
                                                           •88
      1-1/4"
8
                                                @ 110
      1-1/2"
                                                @ 13¢
                                                           2.34
18
      2"
                        **
                                                           2.70
15
                                                @ 18%
      6"
 4
                                                @1.85
                                                           7.40
      8"
 2
                                                @3.55
                                                           7.10
                  Less 80%
                                                          22.22
                                                                         4.44
      11"
              SHEAVES
                                           50g net
                                                           1.00
                                                                          1.00
 2
      3/4"
 9
              RETURN BENDS
                                                @ 30%
                                                          2.70
      1"
72
                                                @ 50¢
                                                          36.00
      1-1/4"
 2
                                                @ 65¢
                                                           1.30
                                                @ 85%
                                                           2.55
 3
                  Less 80%
                                                          42.55
                                                                        8.51
      1/8" SERAIGHTWAY BRASS GLOBE VALVES @ 72¢
1/4" " " @ 72¢
3/8" " " " @ 77¢
                                                           3.60
 9
                                                           6.48
                                                           3.85
 5
                                                          3.00
 3
                              2
                                                 @1.00
      3/4"
                              **
                                                          17.64
                                                 @1.26
14
      1"
                                    22
                              -
20
                                                 @1.80 36.00
      1-1/4"
                                             99
                              *
                                    99
                                                  @2,52 10.08
 4
      1-1/2"
                              *
                                    **
                                             "3 @3.50
                                                         42.00
12
                               **
                                     **
11
      2"
                                                  @5.30
                                                         58.30
      2-1/2"
                                     **
                                                  @10.00 60.00
                  Less 75%
                                                         240.95
                                                                         60.24
                                                                      $ 91.49
```

12	1"	RAILING CROSSES Less 70%	@ 30	¢	3.60	1.08
-	49 0400	TOOM CARDITE		E0	7 50	
1	4" CAST	IRON SADDLE Less 25%	@ 1.	50	1.50	1 10
		1688 20%				1.12
3	1-1/4"	X 3/4" REDUCING	THES	@ 27¢	.81	
9	1-1/4"	X 1" "	1000	@ 274	2.43	
1	4" X 1"			@2.00	2.00	
1	1-1/2"	X 1-1/4" "	. 11	@ 33%	.33	
		Less 75 & 10%			5.57	1.25
11	1/8"	45° ELBOWS		@ 8%	•88	
11	1/4" 3/8" 1/2" 3/4"	n n		@ 8%	.88	
11	3/8"	N N		@ 6¢	.66	
9	1/2"	n n		@ 76	.63	
10	3/4"	и и		@ 10%	1.00	
14	1"	n n		@12¢	1.68	
17	1-1/4"	n n		@ 19¢	3.23	
8 -	1-1/2"	n n		@ 24¢	1.92	
6	2"	W W		@ 34¢	2.04	
3	2-1/2"	H H		@ 60¢	1.80	
5	3"	n n		@ 90¢	4.50	
6	4"			@1.45	8.70	
2	5"	n n		@2.50	5.00	
2	6.11			@3.45	6.90	
8 6 3 5 6 2 2	8"			Ø8.50	8.50	
		Less 70 & 10%			48.32	13.06
2	3/8" 1/2" 3/4"	COUPLINGS		@ 6¢	.12	
4	1/2"			@ 7¢	.28	
26	3/4"			@ 10%	2.60	
17	1"			@ 13%	2.21	
1	1-1/4"			@ 17¢	.17	
44	1-1/4"			@ 21¢	9.24	
64	2"			@ 28¢	17.92	
20	2-1/2"			@ 40¢	8.00	
14	3 **			@ 60¢	8\$40	
1	3-1/2"			@ 80¢	.80	
18	4"			@1.00	18.00	
9	5"			@1.65	14.85	
1	6"	W		@2.40	2.40	
	8"			@4.25	17.00	
3	10"	:		@7.50	22.50	
1	14"			@13.00	13.00	
		Less 80 & 109	1		137.49	24.75
		2004 00 2 207			201010	
13	1" R.	& L COUPLINGS		@ 33¢	4.29	
		Less 70 & 109	6			1.16
						\$ 42.42

4 4 6		ess 75 & 10% CROSSES	@ 8¢ @12¢		56.93 -32 -48	12.78
		25 75 % 100			56.03	12.78
3 9 3 4	5" X 4"		@ 93¢		3.72	
3	4" X 2-1/2" 4"X 3"		@ 50¢		1.50	
3	3" X 2-1/2"		@ 30¢		.90 4.50	
31	2-1/2" X 2"		@21¢		6.51	
81	2" X 1-1/2"		@14¢		11.34	
4	1-1/2" X 1-	1/4" "	@ 9¢		<b>\$36</b>	
1	2" X 1"		@ 14¢		.14	
36	1-1/4" X 1" 1-1/2" X 1"		@ 7¢		2.07	
36	2" X 3/4"	,,	@ 14¢ @ 7¢		.42. 2.52	
1	1-3/4"X 3/4"		@ 7¢		.07	
70	1-1/4" X 3/4	4" "	@ 7¢		4.90	
17	2" X 1/2" 1" X 3/4"		@ 6¢		1.02	
48	2" X 1/2"		@14¢		6:72	
2	1-1/2"X 1/2"		@ 99		•18	
78	3/4"X 1/2" 1-1/4"X 1/2"		@ 74		5.46	
18	3/4 X 3/8" 3/4"X 1/2"		@ 5¢ @ 5¢		1.70	
26	1/2"X 3/8"	**	@ 4¢ @ 5¢		1.04	
24	3/8"X 1/4"	BUSHINGS	@ 40		96	
	Le	ss 75%			37.05	9.26
0			e 0,50		20010	
3 6	5" "		@ 3.15 @ 3.95		9:45 23.70	
1	4" "		@ 2.10		2 10	
1	3-1/2" Flang	es	@ 1.90		1,80	
-	Le	ss 75%				.08
2	1-1/4" REDUC	ING ELBOWS @	18@		•36	
	Le	88 75%				.79
3	2-1/2" CAST	FLG.FLBOWS @ ss 75%	1.05		3.15	70
	La	ss 75%			31.79	7.95
5	6.4		@1.20	A THINK THE	6.00	
8 7 8 5	5" "	n n	@88¢		7.04	
7	4" "		0424		2.94	
8	3" "		@25¢	No. of the second	2.00	
	2-1/2" "	*	@184		1.44	
26	2 11		@10¢		2.60	
35	1-1/4" "		@ 7¢		2.45	
35 77	TE "	11	@ 4¢ @ 5¢		1.40 3.85	
27	3/4" "	*	@ 34		-81	
17	1/2" "	**	@ 24		•34	
6	1/8" CAST 1/4" " 3/8" " 1/2" " 3/4" "		@ 24		.12	
20	1/4" "		@ 24		•40	
20	1/8" CAST	PLUGE	@ 24		•40	
					**	

	- 1				
8	1/8"	TEES	@ 8%	.64	
17	1/4"		@ 8¢	1.36	
12	1/8" 1/4" 3/8"		@ 8%	:96	
22	1/2"		@ 9¢	1.98	
12	1"		@15¢	1.80	
12	1-1/4"		@23%	2.76	
12	1-1/2"		6204		
	T=1/5		@2.9¢	3.48	
8	2"		@41¢	3.28	
8	2-1/2"		@73¢	5.84	
10	3"	Regional Control	@1.10	11.00	
2	3-1/2"		@1.50	3.00	
9	4"		@1.75	15.75	
2	5"		<b>@3</b> §00	6.00	
9 2 4	6.11	-	@4.00	16.00	
		Less 75 & 10%		73.85	\$ 16.62
14	1/8" C			70	
14	1/0"	CAST ELBOWS	@ 5¢	.70	
16	1/4"		@ 5%	.80	
4	3/8"		@ 5%	•20	
12	1/2"	" "	@ 6%	.72	
10	1"	" "	@ 10-1/24	1.05	
20	1-1/4"		@ 16¢	3.20	
8	1-1/2"	n n	@ 20%	1.60	
6	211	и и	@ 28%	1.40	
5 4	2-1/2"	и и	@ 5B¢	2.00	
7	3"		@ 75¢	5.25	
	5"		97 DO	12.00	
6		n n	<b>@2.8</b> 0		
6	6"		@2.75	16.50	
E	7"		@4§70	4.70	
		Less 75 & 10%	6	50.12	11.28
1	3/4" CAS	T FLG. UNIONS	@ 46¢	•46	
-	1-1/2" "		@ 78%	4.68	
6	m		67 40	6.00	
	60.		@1.00	6.00	
4	2-1/2" "		@1.25	5.00	
2	3" "		@1.50	3.00	
3	4" "	" "	@2.10	6.30	
2 3 2	5" "		@3.15	6.30	
1	6" "		@3.95	3.95	
		Less 75%		35.69	8.92
13	1/2"	UNIONS	@ 184	2.34	
5	3/8"	H	@ 20%	1.00	
16	1/2"	**	@ 224	3.52	
10	7/11		@ 27¢	1.89	
7	3/4"				
12	1"		@33¢	3.96	
12	1-1/4"		@ 46¢	5.52	
		Less 70 & 10%	6	18.23	4.92
1	4" CA	ST UNION @4.35	Less 70%10%	4.35	1.18
					\$42.92

						*	THE RESERVE AND ADDRESS OF THE PARTY OF THE	
	6	CRUSH	ER BUCI	KETS		@ \$1.00	6.00	
			T LINK			@ 5¢	1.65	
			NG LIN			@ 10¢	5.90	
					DT C	196# @ 15¢	29.40	
				GY BOXES			9.60	
				GON SKEINS			2.00	
-	217 F	t. 1.	1/4" M.	ANILLA ROPS	0) 1:	be Per Foot.	32.55	
				AGON BARS			65.70	
				R PLATES	@ 2	50 " "	118.75	
		No. 9			@ 2!	5¢ " "	42.25	
1	167#	1-1/2	" BARS	TUBING	@ 20	09	33.40	
				SHEET IRON	@ (	5¢	1.38	
	1	PIPE	WRENCH	CHAINS			•50	
	11#	LEAD	PIPE	(	0	60	.66	
-	200#	No. 5	BELT			Og Per cwt.	•40	
	30#	8d	COPPER	NAILS (	030		9.00	
	15#		W		930		4.50	363.64
	2011	ou			500,		2.00	000.01
					2.			
	10	Brls	LOUISY	ILLE CEMENT	0	\$1.50 Per Brl.	16.00	
	3	**	ATLAS :	PORTLAND "	@	3.50 " "	10.50	
	400#		RETORT	CEMENT	@	5¢	20.00	46.50
	5#		SMOOTH	ON		6¢	•30	
	25#		BORRX			12¢	3.00	
	6#		DRY SH	ELLAC	0	10%	•60	
	35#		ROSIN		0	6¢	2.10	
	30#		PUTTY			5¢	1.50	
	125#		GRAPHI	TE		12-1/20	15.63	
	6"			CLOTHS		10%	•60	
	29-1			EMERY CLOTH		75¢ Per Quire	22.12	
	7.	-,	W	SAND PAPER		25¢ " "	1.75	47.60
	5599			DILLI TIL MI				
	18	12 X	28 WT	ND OW GLASS	0	25¢	4.50	
	30	12 X		W 11		15¢	4.50	9.00
	-	- L			0			
	2	DRUMS	CAUST	IC SODA			73.75	
	1		ALUMN		0	2-3/4%	13.75	
			TIC AC		6	34	•24	
			LEAD	10		8¢	6.00	93.74
	1 3/1	MUTTE	TIGAD			-	0.00	30.14
	3	TONS	COKE		@	\$5.10	15.30	
	3	77	SMITH	COAT	@		12.75	28.05
						-		2000
	4080#	#	STRAW		0	\$7.00 Per Ton	14.28	
7	0270#	#	HAY			12.50 " "	439.19	
	2800		FEED			19.50 " "	27.30	
	1570		MIDDLI	NGS		18.00 " "	14.13	
	35004	#	BRAN			17.00 " "	29.75	
	300		OATS		@		93.00	617.65
	500				0			

1475 Ft. No.8 OKONITE WIRE 1600 " No.12 " " 6345 " No.14 " " 227 DUGAN CLEATS 56 LAMP?GUARDS 202 SECURITY INSULATORS 49 WALL SOCKETS 34 COMBINATIONS CLEATS & ROSETTE 6 SINGLE POLE SWITCHES 5DOUBLE POLE " 12 ATTACHMENT PLUGS 2 No. 190 KNIVE SWITCHES 1 No. 1935 PLUG CUT OUT 81 KEY SOCKETS 6 1/2" X 12 WIRING TUBES 65 4" " " 25 8" " 100 RUBBER BUSHINGS 4 12 Amp. FUSE PLUGS 10 15 " " " 10 20 " " " 10 30 " " " 1# 1/2" OKONITE TAPE 1# SOLDERING STICK 176 8 C.P. INCANDESCENT LAMPS	@ 470 00 W	44.05	
1600 " No 12 " "	@ 76.00 #	25 60	The second second
6345 " NO 74 " "	@ 13.00 "	89.48	
227 DUGAN CLEATS	@ 2.16 0	4.90	
56 LAMP?GUARDS	@ 75d Per Dz.	3.50	
202 SECURITY INSULATORS	@ 2.10 C	4.24	
49 WALL SOCKETS	@ 25¢ C	12.25	
34 COMBINATIONS CLEATS & ROSETTE	IS@ 13¢	4.42	
6 SINGLE POLE SWITCHES	@ 22¢	1.32	
5DOUBLE POLE "	@ 25¢	1.25	
12 ATTACHMENT PLUGS	@ 12%	1.44	
2 No. 190 KNIVE SWITCHES	@ 25¢	.50	
1 No. 1935 PLUG CUT OUT	@ 30¢	•30	
81 KEY SOCKETS	@ 20%	16.20	
6 1/2" X 12 WIRING TUBES	@4.33 C	.25	
65 4" " "	@ 7.75	• 50	
25 8" " "	@ 3.60	•94	
100 RUBBER BUSHINGS	@45¢	•45	
4 12 Amp. FUSE PLUGS	@ 6¢	•24	
10 15 " " " "	@ 6¢	•60	
10 20 " " "	@ 6¢	•60	
10 30 " " "	@ 6¢	•60	
1# 1/2" OKONITE TAPE	@ 75¢	•75	
1# SOLDERING STICK	0.201	.15	
176 8 C.P. INCONDESCENT LAMPS 132 16 C.P. "	@ 18g net	27.08	
10# LEAD WIRE (SODDER ELECTRIC)	@ 26d	2.60	265.77
10# LEAD WIRE (SUDDER ELECTRIC)	@ 20¢	2.00	200.11
16# OLIVE OIL SOAP	@ 704	1.60	
16# OLIVE OIL SOAP 40# SANTA CLAUS BOAP	@ 10¢ @ 7¢	2.80	
TOW DANIA CHAOD DONE	0 17	2.00	
51# CANDLES	@ 8¢	4.08	
11 ENGINE LAMP GLOBES	@ 15¢	1.65	
11 ENGINE LAMP GLOBES 3 LANTERNS GLOBES	@ 10%	•30	
11 SWITCHMENS LANTERNS & GLOBES	@ 10%	1.10	
7 ROCHESTER LAMP CHIMNEYS	@ 15¢	1.05	
1 LANTERN	@ 35¢	.35	
12 FURNACE TORCHES	@ 50¢	6.00	
7 DOZ. LANTERN WICKS	@ lg each	.84	
9 " BURNERS	@ 24 "	2.16	21.93
11 BINGHAM AXES	@ 50¢	5.50	
3 No.6 VARNISH BRUSHES	@ 75¢	2.25	
8 No. 2 " " " " "	@ 50¢	4.00	
6 No. 6/0 " "	@ 50¢	3.00	
15 No.2 SASH "	@ 10%	1.50	
22 10.0	@ 10¢	2.20	
16 WHITE WASH "	@ 50¢	8.00	
8 HOUSE " 5 WINDOW "	@ 50%	4.00	
8 HOUSE " 5 WINDOW " 2 SCRUB "	@ 25¢ @ 25¢	•50	
4 WIRE HORSE "	@ 15¢	.60	
4 WIRE HORSE "	@ 5¢	.05	ST TO ST OF
8 FEATHER DUSTERS	@ 35¢	2.80	
2 DOOR KNOBS (PORCELAIN)	@ 5¢	.10	
2 DOOR KNOBS (PORCELAIN) 1 WINDOW CLEANERS	@ 10%	.10	
5 SKIMÆRS	@ 25¢ . ^ ·	1.25	37.10
	. ///		
			\$324.80

		91				
65# 1/8" BLACK	DIDW	0	51	7 05		
En 7/4" DIACK	FIFE			3.25		
57 1/4" "		@ 6		4.50		
275# 1/2" "		@		24.75		
180# 3/4" "		@ 1	.29	21.60		
275# 1" "	**	0 1	72	46.75		
210# 1-1/2" "		@ 2		56,70		
85# 2" , "	**	@ 3		30.60		
164# 0 7/0" "						
164# 2-1/2" "		@ 5		95:12		
112# 3" "		@ 7		85.12		
18# 4" "		@1.	.08	19.44		
LESS	69%			387.83	120.23	
37-1/2 Ft. 5" BLACK	K DIDE	60 45 TH	99 69 & 5	9 54 38	16.78	
				75 04.00	10.10	
44 Ft. 6" BLACK	PIPE @ 1	.88 LESS 6	6%	82.72	28.12	
	-			-		
3 SPRING HI	NGES	@ 5	d	.15		
22 4" STRAP	n	- @ 5		1.10		
10 6" "				.70		
		0 8				
0 20		@ 8		.24		
19 10" "	H H	@ 8		1.52		
7 8" "		@ 8		•56	4.27	
8 WOOD FAUCE	ETS		10%	•80		
2 3/8" " "		@ 2	25¢	•50	1.30	
68000 RED BRICK		@ <b>4</b>	8.35 M	561.00		
9000 FIRE "			000 "			
				225.00		
1400 ARCH "			.00 "	35.00		
2000 13 X 5 X 6			30.00 M	60.00		
30 TONS FIRE CL	AY	@	7.00 Ton	210.00	1091.00	
40 8 X 12 X 2	TILE	0 8	30.00 M	1.20		
00 9 X 12 X 2	11 11	@	30.00 "	18.00		
46 12 X 12 X 2	W		30.00 "	1.38		
5 12 X 14 X 2			£30.00 "	.15		
					97 90	
239 13 X 7 X 16		@	30.00 "_	7.17	27.90	
30 Cars SA			13.18	395.40	395.40	
13809# LOCOMOTIV	E COAL	@ \$	4.25 Per	Ton	29.34	
2 SMOKE FAN			25.00 Eac		50.00	
5000 Ft. HARDWOOD			2.00		60.00	
				1	Azeni mi	
				- Charles	\$1824.34	

A

```
HORSE RASPS & FILES @ 45¢ Each HALF RD. BASTARD FILES @ $3.40 Doz.
20
    16"
                                             9.00
    6"
4
                                               1.14
    6"
         FLAT " "
                                   3.40 "
                                               3.96
14
         HALF RD. SECOND CUT FILES
    6 m
                                   3.40 "
17
                                               4.81
         FLAT " " "
    12"
                                   12.50 "
15
                                               15.62
6
    6"
                                   3.40 "
                                               1.70
                                 @ 3.40 "
12
    6"
       MILL FILES
                                               3.40
         SLIM TAPER FILES
                                 @ 2.60 "
15
    5"
                                               3.25
                                @ 3.40
@3.40
                                         **
   6"
         SQUARE SECOND FILES
                                               1.70
6
                                         **
   6"
18
                                               5.10
                                @ 12.50 "
14 12"
         FLAT BASTARD FILES
                                              14.60
                                              2.55
9
    6"
         MILL " "
                                @ 3.40 "
    6" ROUND SECOND CUT FILES
                                @ 3.40
18
                                               5.10
   6"
15
        " BASTARD
                    .
                                @ 3.40
                                              4.24
24 12"
         SQUARE BASTARD
                                @ 12.50
                                              25.00
                                 @ 8.10 "
                                               8.10
12 10"
                        "
11 10"
         ROUND
                                 @ 8.10
                                               7.43
15 12"
                        .
         MILL
                                 @12.50
                                              15.63
                        .
6
    8"
                                 @ 5.40
                                               2.70
              LESS 80%
                                              135.03
                                                          27.01
        YALE PAD LOCKS
                                @ 40¢ Each
5
                                                             2.00
150# 3/8 X 1/2 RD HEAD RIVETS
                               @ 7¢ net
                                              10.50
37 3/8 X 3/4 " "
70 5/16 X 1/2" "
16# 3/8 X 1-1/2 "
                               @ 70 "
                       #
                                               2.59
                                @ 7¢ "
                                               4.90
                               @ 7¢ "
@ 7¢ "
                                               1.12
 45# 3/8 X 2-1/2
                                               3.15
 50# 3/8 X 3-1/2
                                               3.50
                                 @ 7¢ n
@ 4¢ n
@ 6¢ n
35# 3/8 X 2
100# 3/4 X 1-1/2"
                  **
                                               2.45
                  *
                                               4.00
25# 1/4 X 2-1/2
                                                             33.71
                                               1.50
17# 3/16 X 1/2 COPPER RIVETS
                                @ 25¢ Net
                                               4.25
    1/4 X 1/1/2
                  11 11
                                @ 25¢ W
                                               1.75
                                 @ 25% "
    1-1/2 X 1
                                                .75
                                 @ 30¢ "
                  11
    1" No.8
                       11
                                                 .90
                                 @ 30¢ "
                       **
    No. 8
                                                              7.95
                                                 .30
106 No. 0 BRISTOL RECORDING BLANKS@ 3/4¢
                        11
69 No.3 " "
100 No.35
                  - 97
115 No.651 "
                          11 11
                          11 11
                                 @ 3/4¢ each net
390
                                                          2.93
                                                           $ 73.60
```

23 3 12	73# No. 773 "	" @ " @	15¢ Per 15¢ " 15¢ "	Lb.	638.25 202.50 131.40	
	FURNACE BELL & HOPP 28" BULB VALVE WITH LINING WRENCHES	SCREWS 7'6"	Long Ste	eel	198.00	
1	BRONZE VALVE SEATS BOO# ANDER NOTCH RETORT PYROMETER		34		335.00 24.00 70.00	1779.15
358 <i>2#</i>	STEEL PLATE HOIST ROPE INTERNAL GEAR	0	2-3/4%			98.50 50.00 52.00
						\$ 1979.65

# RECAPITULATION OF FURNACE SUPPLIES

TOTAL	SHEET	No. 1\$	1608.24	
TOTAL	SHEET	NO. 2	800.68	
TOTAL	SHEET	NO. 3	489.07	
TOTAL	SHEET	NO. 4	17.60	
TOTAL	SHEET	NO. 5	40.14	
TOTAL	SHEET	NO. 6	325.65	
TOTAL	SHEET	NO. 7	175,22	
TOTAL	SHEET	NO. 8	125.57	
TOTAL	SHEET	NO. 9	3.44	
TOTAL	SHEET	NO.10	75.03	4
TOTAL	SHEET	NO.11	103.88	
TOTAL	SHEET	NO.12	91.49	
TOTAL	SHEET	NO. 13	42.42	
TOTAL	SHEET	NO.14	34.69	
		NO.15		
TOTAL	SHEET	NO.16	1206.18	
TOTAL	SHEET	NO.17	324.80	
TOTAL	SHEET	NO.18	1824.34	
		NO.19		
		NO.20		
	3.1.3.2			•
7	COTAL 1	FURNACE SUPPLIES \$	9384.61	

#### CHEMICAL SUPPLIES

2240 Sacks	@ 9¢	201.60	
68 Barrels	@1.51	102.68	
220 " Chemical Lime	@ .84%	184.80	
31# Caustic Scd a	@ .04-1/2¢	1.40	
600# Chloride Lime	@2.05	12.30	
220# Cotton Batts	@ .04¢	8.80	
1130# Muriatic Acid	@ .014¢	15.82	
340# Glue	@ .13-1/24	45.90	
1 Brl. Assorted Bungs		5.00	
20# Sack Twine	@ .14¢	2.80	
45-1100 Tons Yough Screenings	@ 2.95	134.37	
83-550 Tons Pocahontas Coal	@ 3.25	271.53	
TOTAL		\$ 987.00	

#### RETORT SUPPLIES

3182-1600 Tons Anthracite Screenings @ 2.93

9307.77

#### MATHEWS BARN SUPPLIES

18500	Bu. Oats Lbs. Hay Gallons Oil		@ .34¢ @ 13.50 Per ton @ .10¢	_	149.60 124.88 12.00
		TOTAL		\$	286.48

# LABORATORY SUPPLIES

	Ammonium Sulfite		•35
1 "	Soda Lime		.15
1 "	Sod ium Acetate		• 35
1 "	Pottassium Cynaide		1.00
1 "	" Nitrate		.30
1 "	Sodium Hyposulfite		.10
1 "	" Phosphate		•30
2 " 2 " 5 "	Calcium Chlorade		•60
2 "	Potassium "		1.00
3 **	Ether		2.70
	Manganese Dioxide		• 75
1 "	Sodium Licarbonate		.25
1,"	Barium Chlorid		.25
1/2"	Chlorform		.75
2 , "	Phosphoric Acid		1.00
1/2"	Litmus		1.10
12 "	Potassium Pemanganate		1.00
1 "	" Dechromate		.50
1 "	Sodium Besulfite		• 50
1 "	Barium Hydrate		1.50
2 "	Stannous Chlorid		1.00
1/2"	Magnesium		.35
1/2"	Hydrofluoric Acid		.20
1-1/2	Ammonium Oxalate		1.00
1 "	Oxalic Acid		• 50
1 "	Calcium Carbonate		• 30
1 "	Microcosmec Salt		1.00
3 "	Ferrous Sulfite		•75
1/2"	Starch		.05
1 "	Perxoid of Lead	, , , , , , , , , , , , , , , , , , , ,	1.00
3 "	Zinc Oxid		1.50
3 "	Ammonium Chlorid		.40
4 "	" Acetate		4.40
	Sod ium Carbonate		2.50
40 "	Copper & Potassium Chlorid		20.00
7 "	Chromic Acid		5.60
5 **	Potassium Hydrate		3.50
15 "	Molydic Acid		26.25
1/2"	Zinc Chlorid		.25
1 , "	Potassium Dichromiate		• 50
1/2"	" Iod ide		2.00
1 "	Iod ine		4.00
1 "	Memercunic Chloride		1.50
		FORWARD	\$93.00

	BROT. FORWARD	93.00
1 1b.	Arsenious Acid	\$ 1.00
1 "	Potassium Sulfid	1.10
1 "	Cad mium Chloride	2.50
1 "	Potassium Acid Sulfate	.60
5 "	Powdered Zine	3.00
4 "	Granulated Zinc	1.60
4 "	Acetate Acid	1.20
4 "	Carbon Besulfid	2.00
90 "	Ammonia	8.55
140 "	Nitric Acid	13.30
200 "	Sulfuric Acid	15.00
116, "	Hydroschlonic Acid	8.70
1/4"	Citric Acid	•25
1/4"	Taitarie Acid	•45
1,"	Benzoic Acid	2.50
1/5 "	Hydriatic Acid	1.50
1/16"	Taunic Acid	•30
1/2 "	Ammoniumic Ferrous Sulphate	.25
1 "	" Malylidate	1.60
1/2 "	" Car bonate	•25
3/4 "	" Sulfate	•30
34, "	Sodium Nitrate	•30
1/6	Potassium Perrecyanid	.10
1/6	" Sulfacyanide	.10
1 "	Mauganese Sulfate	.60
1/2"	Lead Pesquioxide	.15
1 "	Lead Chromate	1.00
1/2" Fe	rrous Sulfaye	.25
1 "	Granulate Tin	1.00
1 "	Copper Sulfate	.15
3/4"	" Oxide	.75
1/8"	Silver Nitrate	1.50
1/16"	Cobalic Nitrate	•30
1 %	Red Phosphorus	2.25
1 "	Yellow "	1.25
3 "	Asbestos	3.00
	Acetone	•50
1/4"	Iron Wire	•40
1/2 08	Phenolphthalein	.50
1/2 "	Me thyl Orange	•40
		173.45
	LESS 25% DISCOUNT	43.39
	2000 00/0 2 20000112	130.06

# EQUIPMENT. LABORATORY.

Common Blance and weight	1	Becker Walance and weights	\$50.00 20.00
Hamf Balance		Pulp Balance and weights	
1 Pack Filter paper (1000 sheets) 7.88			
1.50   Sulfuric Acid Tubes   1.50   Sulfuric Acid Tubes   2.00   1   Iron Still   3.00   3.00   3.00   3.00   3.00   4   Fractional Columns   24.00   4   Fractional Columns   2.00   21   Cylimers   12.60   6   Mapters   12.60   6   Mapters   1.80   5   Glass Retorts   2.50   7   Commensers   3.50   3.6			
8 Distillation Plasks   2.00 1 Iron Still   3.00 20 Sepratery Funnels   24.00 21 Cylimbers   12.60 6 Mapters   12.60 6 Mapters   1.80 6 Glass Retorts   2.50 7 Combensers   3.50 8 Percelain Rings   1.80 2 Dessicators   2.50 63 Reagent Bottles   1.50 64 Anvil   6.60 65 Anvil   6.60 66 Auxiliary   6.60 67 Reagent Bottles   1.50 68 Reagent Bottles   1.50 69 Jus   9.90 7 Iron Stands and rings   1.50 60 Jus   9.90 7 Iron Stands and rings   1.50 60 Carbon Tubes   2.25 60 Sellon cans   1.50 61 Charcola Idlter   5.00 62 Feliceman   7.75 63 Policeman   7.75 64 Burette Clamps   4.00 65 Histle Tubes   6.00 66 Alkalimaters   4.00 67 Alkalimaters   4.00 68 Alkalimaters   4.00 69 Granite Ware pans   5.50 60 Salmoniac Batteries   5.00 60 Nipper Taps   2.55 7 Pails   1.50 60 Set Hydrometers   5.00 61 Cork Borer   9.90 62 Fernance   1.50 63 Thermometers   1.50 64 Carboys   2.00 65 Puraces   1.50 66 Carbon Tubes   1.50 67 Puraces   1.50 68 Seprator Jars   1.50 69 Policeman   1.70 68 Carbon Thorpense   1.50 69 Policeman   1.70 60 Puraces   1.50 60 Policeman   1.70 60 Puraces   1.50 60 Policeman   1.70 60 Puraces   1.50 60 Puraces			
1   Iron Still   3.00			
24.00   4   Fractional Columns   22.00   21   Cylimers   12.60   6   Mapters   12.60   6   Mapters   12.60   6   Mapters   12.50   7   Comiensers   3.50   3.50   7   Comiensers   3.50			
Practional Columns			
21			
6 Adapters 2.50 5 Glass Retorts 2.50 7 Commensers 3.50 2 Percelain Rings 1.80 2 Dessicators 2.50 63 Reagent Bottles 15.75 1 Anvil 60 1 Casserole 30 6 Jugs 90 7 Iron Stam's and rings 1.75 2 Alcohol Lamps 1.50 3 Carbon Tubes 2.25 5 Gallon cans 3.00 1 Charcoal fulter 50 1 Chamois Skin 2.55 7 Policeman 7.75 8 Burette Clamps 4.00 4 Thistle Tubes 6.60 2 Alkalimaters 4.00 2 Granite Ware pans 5.50 3 Calmoniae Batteries 3.00 5 Nipper Taps 2.55 7 Pails 1.05 8 Cork Borer 90 1 " Thorpense 1.50 1 Cork Borer 90 1 " Thorpense 1.50 2 Set Hydrometers 5.00 3 Thermometers 1.50 1 Eurette stam 1.70 8			
5 Glass Retorts         2.50           7 Comensers         3.50           2 Percelain Rings         1.80           2 Dessicators         2.50           63 Reagent Bottles         15.75           1 Anvil         .60           1 Casserole         .30           3 Uus         .90           7 Iron Stands and rings         1.75           2 Alcohol Lamps         1.50           3 Carbon Tubes         2.25           6 5 Gallon cans         3.00           1 Charcoal falter         .50           1 Charcoal falter         .50           2 Chamois Skin         .25           3 Policeman         .75           4 Charcoal falter         .50           5 Policeman         .75           6 Burette Clamps         4.00           4 Thistle Tubes         .60           2 Alkalimaters         .60           2 Alkalimaters         .50           3 Nipper Taps         .25           7 Pails         .25           1 Cork Borer         .90           2 Pails         .00           3 Cork Borer         .90           1 Westphal Balance         15.00           2 Set H			
Report lain Rings         1.80           2 Dessicators         2.50           65 Reagent Bottles         15.75           1 Anvil         .60           1 Casserole         .30           6 Jugs         .90           7 Iron Stands and rings         1.75           2 Alcohol Lemps         1.50           5 Carbon Tubes         2.25           6 5 Gallon cans         3.00           1 Charcoal falter         .50           1 Charcoal falter         .50           1 Charcoal falter         .50           2 Grachon Tubes         .25           5 Glass Reds         .25           5 Policeman         .50           6 Charcoal falter         .50           1 Charcoal falter         .50           2 Charcoal falter         .50           3 Policeman         .75           6 Salmonias Skin         .25           4 Share Cass         .75           8 Burette Clamps         4.00           4 Thistle Tubes         .60           2 Alkalumaters         4.00           4 Thistle Tubes         .60           2 Alkalumaters         .90           9 Pails         .10	5		2.50
2       Dessicators       2.50         63       Reagent Bottles       15.75         1       Anvil       .60         1       Casserole       .30         6       Jugs       .90         7       Iron Stamis and rings       1.75         2       Alcohol Lemps       1.50         3       Carbon Tubes       2.25         6       5 Gallon cans       3.00         1       Charcoal fditer       .50         1       Chamois Skin       .25         3       Policeman       .75         15       Glass Rods       .75         8       Burette Clamps       4.00         4       Thistle Tubes       .60         Alkalimaters       4.00         2       Granite Ware pans       .50         4       Salmoniac Batteries       3.00         5       Nipper Taps       .25         7       Pails       .90         1       " Taps       .25         7       Pails       .90         1       " Torpense       .75         1       Westphal Balance       .15.00         2       Potash Bulbs	7	Commensers	3.50
63       Reagent Bottles       15.75         1       Anvil       .60         1       Casserole       .30         6       Jugs       .90         7       Iron Stands and rings       1.75         2       Alcohol Lamps       1.50         3       Carbon Tubes       2.25         6       5       Gallon cans       3.00         1       Charcoal falter       .50         2       Charcoal falter       .50         3       Policeman       .75         4       Charcoal falter       .50         5       Policeman       .75         6       Galass Rots       .75         8       Burette Clamps       4.00         4       Thistle Tubes       4.00         4       Thistle Tubes       4.00         4       Thistle Tubes       .60         2       Alkalimaters       .25         4       Salmoniac Batteries       .30     <			
1 Casserole       .30         6 Jugs       .90         7 Iron Stam's and rings       1.75         2 Alcohol Lamps       1.50         3 Carbon Tubes       2.25         6 5 Gallon cans       3.00         1 Charcoal f4lter       .50         1 Chamois Skin       .25         3 Policeman       .75         15 Glass Reds       .75         8 Burette Clamps       4.00         4 Thistle Tubes       .60         2 Alkalimaters       4.00         4 Salmoniac Batteries       3.00         5 Nipper Taps       .25         7 Pails       .25         1 Cork Borer       .90         1 " Thorpense       .75         1 Westphal Balance       15.00         1 Set Hydrometers       5.00         2 Potash Bulbs       12.00         1 Burette stamd       1.70         3 Kipp Generators       9.00         1 Carboys       22.00         2 Furnaces       18.00         1 Gasoline Stove       3.00         1 " Tank and pump       5.00         2 Asperator Jaws       7.00         5 Funnel Racks       1.25         1 Steam Bath </td <td></td> <td>Dessicators</td> <td></td>		Dessicators	
1 Casserole       .90         6 Jugs       .90         7 Iron Stam's am' rings       1.75         2 Alcohol Lamps       1.50         3 Carbon Tubes       2.25         6 5 Gallon cans       3.00         1 Charcoal falter       .50         2 Charcoal falter       .50         2 Charcoal falter       .50         3 Policeman       .25         4 Foliceman       .25         5 Policeman       .75         8 Burette Clamps       4.00         4 Thistle Tubes       .60         2 Alkalimaters       4.00         2 Granite Ware pans       .50         3 Salmoniac Batteries       3.00         5 Nipper Taps       .25         7 Pails       .90         1 Cork Borer       .90         1 " Thorpense       .75         1 Westphal Balance       .500         2 Potash Bulbs       1.50         2 Potash Bulbs       1.200         2 Carboys       22.00         2 Grabius	63		
6       Jugs       .90         7       Iron Stam's am' rings       1.75         2       Alcohol Lamps       1.50         5       Carbon Tubes       2.25         6       5 Gallon cans       3.00         1       Charcoal falter       .50         1       Chamois Skin       .25         3       Policeman       .75         15       Glass Reds       .75         8       Burette Clamps       4.00         4       Thistle Tubes       .60         2       Alkalimaters       .60         4       Thistle Tubes       .50         2       Alkalimaters       .60         4       Alkalimaters       .50         5       Alkalimaters       .50         6       Alkalimaters       .50         7       Pails       .50         1       Taps       .25         7       Pails       .10         1       Cork Borer       .90         2       Yestle Hydrometers       .50         1       Yestle Hydrometers       .50         1       Yestle Hydrometers       .50         2       P			The state of the s
7         Iron Stands and rings         1.75           2         Alcohol Lamps         1.50           5         Carbon Tubes         2.25           6         5         Gallon cans         3.00           1         Charcoal fditer         .50           1         Chamois Skin         .25           3         Policeman         .75           15         Glass Rods         .75           16         Glass Rods         .75           16         Alkalimaters         .60           2         Alkalimaters         .60           2         Alkalimaters         .60           2         Alkalimaters         .50           3         .00         .25           4         .400         .26           4         .400         .20           2         .21         .25           1         .21         .25		Casserole	
2 Alcohol Lamps       1.50         3 Carbon Tubes       2.25         5 Gallon cans       3.00         1 Charcoal falter       .50         1 Chamois Skin       .25         3 Politeman       .75         15 Glass Reds       .75         8 Burette Clamps       4.00         4 Thistle Tubes       .60         2 Alkalimaters       4.00         2 Grantte Ware pans       .50         4 Salmoniac Batteries       3.00         5 Nipper Taps       .25         7 Pails       1.05         1 Cork Borer       .90         1 " " Thorpense       15.00         1 Set Hydrometers       5.00         3 Thermometers       1.50         2 Potash Bulbs       12.00         1 Burette stand       1.70         3 Kipp Generators       9.00         2 Furnaces       18.00         2 Furnaces       18.00         3 Gasoline Stove       3.00         1 " Tank and pump       5.00         1 Iron Comlenser       1.50         2 Asperator Jaffs       7.00         5 Funnel Racks       1.25         1 Steam Bath       5.00         2 Dryi			
3         Carbon Tubes         3.00           6         5 Gallon cans         3.00           1         Charcoal fditer         .50           1         Chamois Skin         .25           3         Policeman         .75           15         Glass Rods         .75           8         Burette Clamps         4.00           4         Thistle Tubes         .60           2         Alkalimaters         4.00           2         Alkalimaters         .50           3         Salmoniac Batteries         5.00           5         Nipper Taps         .25           7         Pails         1.05           1         Cork Borer         .90           1         " Thorpense         .90           1         " Thorpense         .90           1         Set Hydrometers         .90           1         Set Hydrometers         .90           1         Set Hydrometers         .1.50           2         Potash Bulbs         .12.00           1         Burette stand         .1.70           3         Levice         .900           2         Furnaces         .18.			
6       5 Gallon cans       3.00         1       Charcoal falter       .50         1       Chamois Skin       .25         3       Policeman       .75         15       Glass Rods       .75         8       Burette Clamps       4.00         4       Thistle Tubes       .60         2       Alkalimaters       4.00         2       Granite Ware pans       .50         3       Salmoniac Batteries       3.00         5       Nipper Taps       .25         7       Pails       .105         1       Cork Borer       .90         1       " Thorpense       .75         1       Westphal Balance       .15.00         2       St Hydrometers       .15.00         3       Thermometers       .1.50         1       Potash Bulbs       .12.00         1       Burette stand       .1.70         3       Kipp Generators       .9.00         1       Carboys       .22.00         2       Furnaces       .18.00         3       .00       .9.00         1       " Tank and pump       .5.00			
1 Charcoal fditer       .50         1 Chamois Skin       .25         3 Policeman       .75         15 Glass Rods       .75         8 Burette Clamps       4.00         4 Thistle Tubes       .60         2 Alkalimaters       4.00         2 Granite Ware pans       .50         3 Salmoniac Batteries       3.00         5 Nipper Taps       .25         7 Pails       1.05         1 Cork Borer       .90         1 " Thorpense       1.50         1 Set Hydrometers       5.00         3 Thermometers       1.50         12 Potash Bulbs       12.00         1 Burette stand       1.70         3 Kipp Generators       9.00         1 Carboys       22.00         2 Furnaces       18.00         2 Gasoline Stove       3.00         1 " Tank and pump       5.00         1 Iron Condenser       1.50         2 Asperator Jass       7.00         5 Tunnel Racks       1.25         1 Steam Bath       5.00         Drying ovens       9.75         2 Copper Air Baths       9.75         4 Copper steam Baths       3.75	3		
1 Chameis Skin       .25         3 Policeman       .75         15 Glass Reds       .75         8 Burette Clamps       4.00         4 Thistle Tubes       .60         2 Alkalimaters       4.00         2 Granite Ware pans       .50         4 Salmoniac Batteries       3.00         5 Nipper Taps       .25         7 Pails       .25         1 Cork Borer       .90         1 " " Thorpense       .75         1 Westphal Balance       15.00         2 Set Hydrometers       5.00         3 Thermometers       1.50         12 Potash Bulbs       12.00         1 Burette stamd       1.70         3 Kipp Generators       9.00         1 Carboys       22.00         2 Furnaces       18.00         1 Carboys       22.00         2 Furnaces       18.00         1 Suction Fump       5.00         1 Fund Condenser       1.50         2 Asperator Jars       7.00         5 Funnel Racks       1.25         1 Steam Bath       5.00         2 Drying ovens       9.75         2 Copper Air Baths       9.75         4 Copper steam			
Policeman   .75			
15       Glass Rods       .75         8       Burette Clamps       4.00         4       Thistle Tubes       .60         2       Alkalimaters       4.00         2       Granite Ware pans       .50         4       Salmoniae Batteries       3.00         5       Nipper Taps       .25         7       Pails       1.05         1       Cork Borer       .90         1       " Thorpense       .75         1       Westphal Balance       15.00         1       Set Hydremeters       1.50         1       Set Hydremeters       1.50         2       Potash Bulbs       12.00         1       Burette stand       1.70         3       Kipp Generators       9.00         2       Furnaces       18.00         1       Carboys       22.00         2       Furnaces       18.00         1       " Tank and pump       5.00         1       " Tank and pump       5.00         2       Asperator Jars       7.00         5       Tunnel Racks       1.25         1       Steam Bath       5.00			
8       Burette Clamps       4.00         4       Thistle Tubes       .60         2       Alkalimaters       4.00         2       Granite Ware pans       .50         4       Salmoniac Batteries       3.00         5       Nipper Taps       .25         7       Pails       1.05         1       Cork Borer       .90         1       " Thorpense       .75         1       Westphal Balance       15.00         1       Set Hydrometers       5.00         3       Thermometers       1.50         1       Potash Bulbs       12.00         1       Burette stam       1.70         3       Kipp Generators       9.00         1       Carboys       22.00         2       Furnaces       18.00         1       Gasoline Stove       3.00         1       " Tank and pump       5.00         1       Iron Condenser       1.50         2       Asperator Jars       7.00         5       Funnel Racks       1.25         1       Steam Bath       5.00         2       Drying ovens       9.75 <tr< td=""><td></td><td></td><td>7.00</td></tr<>			7.00
### Thistle Tubes			
2       Alkalimaters       4.00         2       Granite Ware pans       .50         4       Salmoniac Batteries       3.00         5       Nipper Taps       .25         7       Pails       1.05         1       Cork Borer       .90         1       " Thorpense       .75         1       Westphal Balance       15.00         1       Set Hydrometers       5.00         3       Thermometers       1.50         12       Potash Bulbs       12.00         1       Burette stand       1.70         3       Kipp Generators       9.00         1       Carboys       22.00         2       Furnaces       18.00         2       Furnaces       18.00         3       1.00       1.00         1       " Tank and pump       5.00         1       Suction Pump       1.00         1       Incommodification of the pump       1.00         2       Asperator Jaws       7.00         3       The pump of the pump       1.00         3       The pump of the pum			
2       Granite Ware pans       .50         4       Salmoniac Batteries       3.00         5       Nipper Taps       .25         7       Pails       1.05         1       Cork Borer       .90         1       " Thorpense       .75         1       Westphal Balance       15.00         1       Set Hydrometers       5.00         3       Thermometers       1.50         12       Potash Bulbs       12.00         1       Burette stand       1.70         3       Kipp Generators       9.00         1       Carboys       22.00         2       Furnaces       18.00         2       Furnaces       18.00         3       100       1.00         1       " Tank and pump       5.00         1       " Tank and pump       1.00         1       Incommoderate stand       1.50         2       Asperator Jams       7.00         5       Funnel Racks       1.25         1       Steam Bath       5.00         2       Drying ovens       9.75         2       Copper Air Baths       9.75			
4       Salmoniae Batteries       3.00         5       Nipper Taps       .25         7       Pails       1.05         1       Cork Borer       .90         1       " Thorpense       .75         1       Westphal Balance       15.00         1       Set Hydrometers       5.00         3       Thermometers       1.50         12       Potash Bulbs       12.00         1       Burette stand       1.70         3       Kipp Generators       9.00         1       Carboys       22.00         2       Furnaces       18.00         1       Gasoline Stove       3.00         1       " Tank and pump       5.00         1       Suction Pump       1.00         1       Iron Condenser       1.50         2       Asperator Jars       7.00         5       Funnel Racks       1.25         1       Steam Bath       5.00         2       Drying ovens       9.75         2       Copper Air Baths       9.75         4       Copper steam Baths       3.75			
5       Nipper Taps       .25         7       Pails       1.05         1       Cork Borer       .90         1       " Thorpense       .75         1       Westphal Balance       15.00         1       Set Hydrometers       5.00         3       Thermometers       1.50         12       Potash Bulbs       12.00         1       Burette stand       1.70         3       Kipp Generators       9.00         1       Carboys       22.00         2       Furnaces       18.00         1       Gasoline Stove       3.00         1       " Tank and pump       5.00         1       Iron Comienser       1.50         2       Asperator Jaws       7.00         5       Funnel Racks       1.25         1       Steam Bath       5.00         2       Drying ovens       9.75         2       Copper Air Baths       9.75         4       Copper steam Baths       3.75			
7       Pails       1.05         1       Cork Borer       .90         1       " Thorpense       .75         1       Westphal Balance       15.00         1       Set Hydrometers       5.00         3       Thermometers       1.50         12       Potash Bulbs       12.00         1       Burette stand       1.70         3       Kipp Generators       9.00         1       Carboys       22.00         2       Furnaces       18.00         1       Gasoline Stove       3.00         1       " Tank and pump       5.00         1       Suction Pump       1.00         1       Iron Condenser       1.50         2       Asperator Jars       7.00         5       Funnel Racks       1.25         1       Steam Bath       5.00         2       Drying ovens       9.75         2       Copper Air Baths       9.75         4       Copper steam Baths       3.75			
1       " Thorpense       .75         1       Westphal Balance       15.00         1       Set Hydremeters       5.00         3       Thermometers       1.50         12       Potash Bulbs       12.00         1       Burette stand       1.70         3       Kipp Generators       9.00         1       Carboys       22.00         2       Furnaces       18.00         1       " Tank and pump       5.00         1       " Tank and pump       1.00         1       Iron Condenser       1.50         2       Asperator Jass       7.00         5       Funnel Racks       1.25         1       Steam Bath       5.00         2       Drying ovens       9.75         2       Copper Air Baths       9.75         4       Copper steam Baths       3.75			
1       " Thorpense       .75         1       Westphal Balance       15.00         1       Set Hydrometers       5.00         3       Thermometers       1.50         12       Potash Bulbs       12.00         1       Burette stand       1.70         3       Kipp Generators       9.00         1       Carboys       22.00         2       Furnaces       18.00         1       " Tank and pump       5.00         1       " Tank and pump       5.00         1       Suction Pump       1.00         1       Iron Comdenser       1.50         2       Asperator Jars       7.00         5       Funnel Racks       1.25         1       Steam Bath       5.00         2       Drying ovens       9.75         2       Copper Air Baths       9.75         4       Copper steam Baths       3.75			
1       Westphal Balance       15.00         1       Set Hydrometers       5.00         3       Thermometers       1.50         12       Potash Bulbs       12.00         1       Burette stand       1.70         3       Kipp Generators       9.00         1       Carboys       22.00         2       Furnaces       18.00         1       Gasoline Stove       3.00         1       " Tank and pump       5.00         1       Suction Pump       1.00         1       Iron Condenser       1.50         2       Asperator Jass       7.00         5       Funnel Racks       1.25         1       Steam Bath       5.00         2       Drying ovens       9.75         2       Copper Air Baths       9.75         4       Copper steam Baths       3.75			
1       Set Hydrometers       5.00         3       Thermometers       1.50         12       Potash Bulbs       12.00         1       Burette stand       1.70         3       Kipp Generators       9.00         1       Carboys       22.00         2       Furnaces       18.00         1       Gasoline Stove       3.00         1       "       "         1       "       Tank and pump         1       Suction Pump       1.00         1       Iron Condenser       1.50         2       Asperator Jars       7.00         5       Funnel Racks       1.25         1       Steam Bath       5.00         2       Drying ovens       9.75         2       Copper Air Baths       9.75         4       Copper steam Baths       3.75			
3 Thermometers       1.50         12 Potash Bulbs       12.00         1 Burette stand       1.70         3 Kipp Generators       9.00         11 Carboys       22.00         2 Furnaces       18.00         1 Gasoline Stove       3.00         1 " Tank and pump       5.00         1 Suction Pump       1.00         1 Iron Condenser       1.50         2 Asperator Jass       7.00         5 Funnel Racks       1.25         1 Steam Bath       5.00         2 Drying ovens       9.75         2 Copper Air Baths       9.75         4 Copper steam Baths       3.75			
12       Potash Bulbs       12.00         1       Burette stand       1.70         3       Kipp Generators       9.00         11       Carboys       22.00         2       Furnaces       18.00         1       Gasoline Stove       3.00         1       " Tank and pump       5.00         1       Suction Pump       1.00         1       Iron Condenser       1.50         2       Asperator Jass       7.00         5       Funnel Racks       1.25         1       Steam Bath       5.00         2       Drying ovens       9.75         2       Copper Air Baths       9.75         4       Copper steam Baths       3.75	3		
1       Burette stand       1.70         3       Kipp Generators       9.00         11       Carboys       22.00         2       Furnaces       18.00         1       Gasoline Stove       3.00         1       " Tank and pump       5.00         1       " Tank and pump       1.00         1       Suction Pump       1.00         1       Iron Condenser       1.50         2       Asperator Jass       7.00         5       Funnel Racks       1.25         1       Steam Bath       5.00         2       Drying ovens       9.75         2       Copper Air Baths       9.75         4       Copper steam Baths       3.75			
11 Carboys       22.00         2 Furnaces       18.00         1 Gasoline Stove       3.00         1 " Tank and pump       5.00         1 Suction Pump       1.00         1 Iron Condenser       1.50         2 Asperator Jass       7.00         5 Funnel Racks       1.25         1 Steam Bath       5.00         2 Drying ovens       9.75         2 Copper Air Baths       9.75         4 Copper steam Baths       3.75			
2       Furnaces       18.00         1       Gasoline Stove       3.00         1       " Tank and pump       5.00         1       Suction Pump       1.00         1       Iron Condenser       1.50         2       Asperator Jass       7.00         5       Funnel Racks       1.25         1       Steam Bath       5.00         2       Drying ovens       9.75         2       Copper Air Baths       9.75         4       Copper steam Baths       3.75	3	Kipp Generators	9.00
1       Gasoline Stove       3.00         1       " Tank and pump       5.00         1       Suction Pump       1.00         1       Iron Condenser       1.50         2       Asperator Jass       7.00         5       Funnel Racks       1.25         1       Steam Bath       5.00         2       Drying ovens       9.75         2       Copper Air Baths       9.75         4       Copper steam Baths       3.75			22.00
1       " Tank and pump       5.00         1       " Tank and pump       5.00         1       Suction Pump       1.00         1       Iron Condenser       1.50         2       Asperator Jass       7.00         5       Funnel Racks       1.25         1       Steam Bath       5.00         2       Drying ovens       9.75         2       Copper Air Baths       9.75         4       Copper steam Baths       3.75	2	Furnaces	
1       " Tank and pump       5.00         1       Suction Pump       1.00         1       Iron Condenser       1.50         2       Asperator Jass       7.00         5       Funnel Racks       1.25         1       Steam Bath       5.00         2       Drying ovens       9.75         2       Copper Air Baths       9.75         4       Copper steam Baths       3.75		Gasoline Stove	
1       Suction Pump       1.00         1       Iron Condenser       1.50         2       Asperator Jass       7.00         5       Funnel Racks       1.25         1       Steam Bath       5.00         2       Drying ovens       9.75         2       Copper Air Baths       9.75         4       Copper steam Baths       3.75		"	
1       Iron Condenser       1.50         2       Asperator Jars       7.00         5       Funnel Racks       1.25         1       Steam Bath       5.00         2       Drying ovens       9.75         2       Copper Air Baths       9.75         4       Copper steam Baths       3.75			
2 Asperator Jass       7.00         5 Funnel Racks       1.25         1 Steam Bath       5.00         2 Drying ovens       9.75         2 Copper Air Baths       9.75         4 Copper steam Baths       3.75			
1       Steam Bath       5.00         2       Drying ovens       9.75         2       Copper Air Baths       9.75         4       Copper steam Baths       3.75	1		
1       Steam Bath       5.00         2       Drying ovens       9.75         2       Copper Air Baths       9.75         4       Copper steam Baths       3.75	2		
2 Drying ovens 9.75 2 Copper Air Baths 9.75 4 Copper steam Baths 3.75	5		
4 Copper steam Baths 3.75	1		
4 Copper steam Baths 3.75	2		
4 "Stills 35.00			
	4	" Stills	35,00

FORWARD &

	BROT. FORWARD	351.80
1	Set Seives	5.00
140	Beakers	18.20
1	Magnet	.25
3	Brushes	•30
1	Percelain Moter & Pestle	.80
2	Agate "	13.00
1	Spatule	.25
1	Gas Tongs	.75
70	Flasks	21.00
12	Graduated Flasks	6.00
64	Funnels	9.60
2	Crucible Tongs	1.00
1	Monkey Wrench	•50
1	Mallet	•50
1	Diamond Motor	5.80
2	Plyers	• 50
5#	Glass Tubing	2.20
3#	Rubber Corks	6.00
1#	Rubber Tubing	1.75
1	Hot Plate	1.50
7	Precipitating Jars	10.50
1	Filter Basket	• 50
101	Watch Glasses	14.10
6	Copper Boxes	.90
6	Pipettes	• 50
6	Files	•30
4	Tripods	1.00
1	Sulphur Appartus	4.00
1	Acetate "	11.75
20	Evaporating Dishes	4.00
1	Test Tube Rack	•25
1	Crock	•20
5	Becker Clamps	1.00
1	Alimum Scoop with Counterpoise	1.25
1	Specific Gravity Bottle	2.00
1	Gasoline Can	.25
34	Test Tubes	.68
121	t. Tin Pipe	.90
2	Scrub Brushes	• 50
1	Mop	.10
1	Duster	• 50
1	Waste Baskets	.25
1	Scratcher	• 50
1	Ink Well	.75
1	Desk	5.50
5	Chairs	12.00
12	Small Precipitating Jars	3.00
12	Large "	3.00
175		12.25
125	Sample Bottles	8.60
1#	Cotton	•50
6	Towels	1.50
2	Hoskins Burners	10.80
1	Box Lables	.15
1	Pair Shears	.25
		\$ 560.93
	Less 15% Depreciation in '98 \$84.14	
	Less 15% " '99 84.14	
	Less 15% " '00 84.14	252.42
	Net Balance November 30th 1900	\$ 308.51

#### OFFICE FURNITURE & FIXTURES

1	Chair	. \$	1.50
1	Press & Stant		27.00
9	Curtains		11.42
1	Chair		5.00
1	Rapid Roller Copier	0	35.00
1	Challenge Eyelet Machine		3.00
1	Low Desk		10.00
1	Square Desk		25.00
2	Ink Stands		.50
2	Small Rugs		1.00
1	Globe Cabinet File		9.00
2	Sponge Dishes		.20
2	Waste Paper Baskets		.50
1	Office Chair		1.50
8	Office Chairs		8.00
1	Umbrella Holder		.25
2	Letter Baskets		.25
4	Ink Stands		• 40
1	Large Rug		3.30
1	Steel Eraser		.25
1	Hair Brush & Comb		.15
1	Rand-McNally Atlas		1.00
1	Pin Dish & Pen Rack		.05
1	Pair Shears		•50
1	Clothes Brush		.25
1	Brass Towel Rack		.10
1	Stool		.25
1	High Desk		15.00
1	High Stool		•50
1	Glass Paper Weight		.10
2	Pen Racks		.25
1	Smith & Weston Hammerless Revolver		5.00
1	Table		1.00
1	Desk		•50
1	Drafting Table		2.00
1	Lewelling Table Rod		13.00
1	Pair Shears		.25
-	Hand Level		18.00
1	Desk		20.00
1	Chair Vallege Laws		1.00
1	Kellogg Lamp		2.00
1	Drawing Pen		.50 11.60
ì	Shippers Desk Typewriter Desk		
i			8.40
7	18" Flexible Ruler U.S. Postal Scale		50
2	Shannon Files		2.50
7			2.80
1 2 1 6	Lightning Check Punch		18.00
1	Nickle Rochester Lamps, Complete		11.10
1	No. 10 Rochester Lamp Time Lock Safe		3.50
-	TIME HOCK DATE		275.00
	FORWARD,	\$	557.87

#### OFFICE FURNITURE & FIXTURES

	AMT. BROT. FORWARD	557.87
1	No. 4 Smith Premier Typewriter	
	with tabulator	149.00
1	Rapid Filing Cabinet & Base	47.50
1	Roll Top Desk	24.00
1	Revolving Chair No.411 ( Mr. Farrell's)	11.16
1	" " No.411 ( " )	11.70
3	Office Chairs ( " )	28.80
1	Stenographers Chair	6.60
		\$ 836.63
	Net Balance November 30th 1899 \$ 593.05	
	Additions 1900 45.00	
	TOTAL 638.05	
	Depreciation 1900 15% 125.50	
	Worn Out Two Office Chairs 3.85 129.35	
	Balance November 30th 1900 \$ 508.70	

63805

83663 95-30

8366 4183

#### MACHINE SHOP MACHINERY

@

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	42° X 20 NEW HAVEN LATHE 4" JACK CHUCK LARGE FACE PLATE SMALL " " STEADY REST FOLLOWING REST SLIDE " BORING BRACE SET GEARS	\$420.00
1 1 1	TON CHAIN BLACK FRICTION COUNTER SHAFT 66-1/2 lbs TOOLS SET BELTS	
1 1 1 1 1 1 1 1 1	SCHUMACHER & BOYE LATHE 26" X 14 LARGE FACE PLATE SMALL " " 4" JAW CHUCK STEADY REST FOLLOWING REST EXTRA SLIDE REST SET GEAR FRICTION COUNTER SHAFT SET BELTS 57 Lbs. TOOLS	705.00
	COMPLETE SET BELTS FOR ALL TOOLS	218.70
1 1 1 1 1 1 1	FLATHER & CO LATHE L8 X 6  LARGE FACE PLATE  SMALL " "  4" JAW CHUCK  SMALL 3" JAW CHUCK  LITTLE GIANT DRILL CHUCK  SET GEARS  FOLLOWING REST	75.00
1 1 1	STEADY REST FRICTION COUNTER SHAFT BET BELTS 17-1/2 Lbs. TOOLS	
1 1 1 1 1 1 1 1 1	FLATHER & CO LATHE 14" X 40  LARGE FACE PLATE SMAIL "  4" JAW CHUCK LITTLE GIANT BRILL STEADY REST FOLLOWING REST FRICTION COUNTER SHAFT	215.00
1	SET BELTS 23 Lbs. TOOLS	

# MACHINE SHOP EQUIPMENT CONTINUED

1	WOODWARD & POWELL PLANER 27 X 27 X 8	\$832.00
1	CHUCK	
1	COUNTER SHAFT	
1	SET BELTS 94 Lbs. TOOLS	
	34 HDS • 100HD	
1	DRESSER MILLER & CO. RADICAL DRILL #30"	395.35
1	SET TWIST DRILLS 1/16,1/2, to 2"	
1	COUNTER SHAFT	
1	SET BELTS	
1	LITTLE GIANT DRILL CHUCK	
1	BARNE'S 16" DRILL PRESS	78.50
1	SET TWIST DRILLS by 1/64 1/16" to 1/2"	
1	LITTLE GIANT DRILL CHUCK	
1	COUNTER SHAFT	
1	SET BELTS	
1	SMITH & MILLS 15" SHAPER	212.45
i	CHUCK	CF• 313
1	COUNTER SHAFT	
1	SET BELTS	
	13 Lbs tolls	
		045.00
1	NO. 12 GARVIN MILLING MACHINE PAIR SENDERS	265.80
1	CHUCK	
1	ARBOR	
12	MILLING CUTTERS	
1	COUNTER SHAFT	
1	SET BELTS	
1	SAUNDERS & SON PIPE CUTTER 6"	75.00
1	SET OPEN PIPE DIES 1-1/4" to 6" inclusive	70.00
1	COUNTER SHAFT	
1	SET BELTS	
1	NO. 3 MERIAM BOLT CUTTER	75.00
1	SET CHASERS FROM 1/2" to 2" SET TAPS FROM 1/2" to 2"	
1	COUNTER SHAFT	
1	SET BELTS	
1	DAVIS KEY SEATER NUMBER ONE	160.75
12	CUTTERS	
1	COUNTER SHAFT SET BELTS	
-	Del Denis	
1	POWER HACK SAW NO. 10	6.88
1	SET BELTS	
	AMAZI TIMAR ARIMAR NA	
1 1 1 1	CHALLENGE GRINDER NO. 4	5.00
1	EMERY WHEEL FELT	
i	POLISHING WHEEL	
1	COUNTER SHAFT	
1	SET BELTS	

#### MACHINE SHOP EQUIPMENT CONTINUED

1	YANKEE TWIST DRILL DRINDER SET BELTS		65.00
1	MAIN SHAFT 85 Ft. 22 PULLEYS 8 HANGERS		160.32
1	NEW YORK SAFETY ENGIN 5" X 6" MAIN BELT		50.00
1	400# Fairbanks Scale No. 11-1/2		15.60
ī	No. 50 Springfield Straightening Machine		27.50
1	Hill Vale Facing Machine		20.25
1	Overhead Trolly		15.00
1	Two Ton Chain Block	201	5.00
1	Set Hard Taps 1/4 X 1"		15.00
5	Armstrong Tolls		5.00
1	No. 18 Vice		5.00
1	No. 20 Vice		4.00
1	No. 3 Vice		4.00
1	Ham Saw		.50
1	No. 2 Brass Pipe Wrench		4.00 3.70
1	No. 1 " " " Cyclone Box Opener		•50
1	No. 1 Tap Wrench		1.00
1	No.75 " "		1.00
ī	Set Pipe Taps 1/8 to 2-1/2		15.00
3	Hatchets		6.00
3	Set Carpenter's Bits 1/4 to 1"		1.00
2	Extension Bits		1.50
1	Set Mound Scrapers		1.00
1	Folding Machine		9.25
1	Pr. Rollers		10.00
1	Turning Machine Stow's		9.82
1	Wiring Machine "		9.14
1	Double Reamer		6.00
1	Buffal o Portable Forge No. 4		15.00
1	Screw Punch 3/8 to 3/4		10.65
1	Riveting Hammer  4" Roller Flue Expander		2.00
i	2" " " " "		2.00
i	Whitewash Machine		25.00
î	Set Lecount Lathe Dogs		2.50
22	Hand Screws		2.20
1	Copper Pipe Expander		2.00
	Turban Flue Cleaners		30.00
3 1 1	Bead ing Tool		.10
1	Ratchet Brace		• 50
1 1 1	Addj. Die Stock & Taps 1/4 to 1/2		2.00
1	Set Steel Alphabet Stamps		1.00
1	Set Steel Numbers		1.00
2	24" Stilson Wrenches		1.00
2 2 2 2 2	18" " " " 12" " " " " " " " " " " " " " "		1.00
2	4 ft. Chain Tongs		2.00
2	4ft No. 13-1/2 Vulcan		2.00
2	4ft Common Chain Tongs		1.00
1	6 ft. " " "		1.00
ī	24 ft. " " "		1.00
ī	No. 2 Pipe Cutter		1.00
1	No. 1 " "		.50
1	No. 0 Oster Pipe Dees 1/8 to 1/2		1.00

# MACHINE SHOP EQUIPMENT CONTINUED

L	No. 1-1/2 Oster Pipe Dies 1/4 to 1"		2.00
1	No. 3 " " " 1 to 2"		3.00
1	No.6 " " 2-1/2 to 4		4.00
1	No. 5 Phoenix Howe Pipe Vice		1.00
1	Fred Macy Roll Top Desk		34.80
1	Revolving Chair		7.75
1	Pr. Bachelder Indicators		90.00
1	Ideal Reducing Wheels		10:00
1	Universal "T" Square		2.50
1	Pr Shears		•50
1	Ink Stand		.25
4	Filing Cases	at an artist	1.00
1	Duster		.25
1	Whist Broom		.25
1	Mirror		2.00
1	Planetary Pencil Sharpener		3.50
	Tape		.50
2 1	Shannon Bill Files		.70
1	Steel Eraser		.50
1	Doz. Blue Print Clasps		.60
2	Door Mats		1.00
ī	Revolution Counter		2.00
	no round of miles		\$168.10
	Total Sheet No. 29		1633.70
	Total Sheet No. 30		2106.73
	Total Sheet No. 31		579.53
	TOTAL		\$ 4488.06
	Depreciation 15% in '98	280.47	
	Depreciation 15% in '99	283.26	
	Depreciation 15% in '00	357.00	
	Increase Cost of Tools & Machinery a/c		
	Fire and Charged to Fire Loss	2108.13	3028.86
	Net Balance November 30th 1900		\$ 1459.20

#### BLACKSMITH SHOP MACHINERY.

1	No. 313 Bannet & Son Steam Hammer Anvil & Bellows	685.22 41.00
1	Small Anvil	
1 1 1 1 1	Rivet Cutter	
1	Pr Bellows	
1	Large Vice	
36	Shaping Tools	
40	Cutter Pinchers & Chisels	
1	No. 16 Sledges	
2	No. 8 Sledges	
2	No. 6 Sledge	
34	Pr. Tongs	
1	Hand Bolt Header 3/8 X 1-1/4 Heading Tools	
1	Set 1/4 X 1/2 X 1/16 Hard Dies	
1 1 1 1 1 1 2	Set 5/8 X 1 X 1/8 " "	
1	300# Sledge Block	
1	No. 12 Mardle	
1	No. 2 Billings Clamp	
1	No. 1 " "	
1	Each 3/4 to 1/4 Solid Wrenches	
1	Set Cold Chisels	
2	Surface Plates	
4	Calking Irons	
2	Reamers	
		\$726.22
	Less 15% Depreciation in '98 \$ 108.91	
	Less 15% " '99 108.91	
	Less 15% " " 100 108.91	326.73
	Net Balance November 30th 1900	399.49

# CARTS, WAGONS AND HORSES.

1	Team Black Mares "Maud" & "Mary"	238.50
1	Team Bay " "Nell" & "Maggie"	243.90
1	Bay Mare "Kate"	126.00
1	Gray Horse "Charlie"	45.00
1	Sorrel " "Dan"	78.75
1	Iron Gray Mare "Maud"	145.00
1	Bay Horse "Captain"	175.00
1	Bay Horse "King"	150.00
ī	Iron Gray Cinder Horse	225.00
1	Top Road Wagon	22.50
ī	Top Surrey	64.85
i		46.80
	Buggy	124.63
1	No. 50 Wagon Canopy Top	
1	No.11 Rubber Tire Top Buggy	142.00
1	Set D Team Harness	34.20
1	Set Light Single Harness	9.00
1	Set Light D. Team Harness	22.50
1	Single Harness	34.20
1	S.R.O.R. Single Harness	21.99
1	Portlam Cutter	31.50
1	Jump seat Cutter	31.40
1	Single Sleigh	34.30
1	No.5 Sleigh	36.00
1	New Lumber Wagon	53.00
1	Lumber Wagon	36.00
1	Express Wagon	18.00
1	Chore Wagon	27.00
3	Cinder Dump Carts	166.49
1	Braize Cart	21.74
2	Cart Saddles & Breeching	15.30
4	Buffalo Robes	49.50
i	Lap Robe	1.12
2	Cushions	35.20
2	Light Poles	1.80
ĩ		.45
-	Light Neck Yoke	•40
		\$ 2508.62
	Net Balance November 30th 1899 \$ 1193.29	<b>₽</b> 2500.02
	Add it ions 1900 983.62	
	2176.91	
	Depreciation 1900 & sales 477.10+	
	Net Balance November 30th 1900 1699.81	
	Depreciation 15% 1900 376.30	
	Loss Sale Horse "Mollie" 6.90	
	Sale Horse Mollie" 75.00	
	3 Carts Worn Out, Loss 18.90	
	\$ 477.10+	
	A 211.70	

#### CHARCOAL CARS

Class A 34 ft.	Class B 33 Ft.	Class C &32 Ft.
No. 101	No. 112	No. 113
102	116	114
103	117	115
104	119	118
105	120	126
106	121	130
107	122	131
108	124	133
109	125	134
110	127	135
111	128	136
Managharagana	129	137
	132	138
11 Cars	13 Cars	13 Cars
Total of	37 APRC @\$143 18 Fach	\$5207 7g

Total of 37 cars @\$143.18 Each \$5297.78

Net Balance Nov. 30th 1900 \$ 3808.68

Add itions 1900 a/c Air Brakes&Couplers 4807.20

TOTAL
Less 15% Depreciation '00 8615.88
1729.95+
Balance November 30th 1900 6885.93

Depreciation 15% 1900 1503.22 Charcoal Car #123 destroyed By Fire November 30th 226.73 \$1729.95+

38 Charcoal cars cost to buy repair and make ready for service\$143.18 Above cars cost to equip with Air Brakes & Couplers Each 126.50 \$268.68

3

# SCALES

1 1 1	No.1573 6Bm Charging Scale 5-ten D.B.M. & F. Scale 50-ft. Platform R.R.Track Scale(120,000 Cap.)	\$ 401.43 154.00 880.55
	Truck Scale	10.00
ī	5-Ton D.B.M. & F. Scale	113.75
	400-lb. Fairbanks Scale at Machine Shop	16.90
ī	Charging Scale	100.00
-	Charging Scale	100.00
		1676.63
	Less Depreciation 15% in '98 104.65 251.50 251.50	607.65
	Balance November 30th 1900	1068.98
	TELEPHONES	
		American Comment
2	Telephones at \$12.50	\$ 25.00
1	Long Distance Telephone (Office)	18.00
1	Long Distance Board and Transmitter ( Office)	8.00
1	Extension Bell ( Machine Shop )	2.75
1	Extra Ear Phone ( Machine Shop )	1.25
		55.00
	Less 15% Depreciation in '98 8.25	
	" 15% " '99 8.25	
	" 15% " '00 <u>8.25</u>	24.75
	Balance November 30th 1900	30.25
	OREBARROWS	
8	Ore Barrows	362.97
0	Less 15% Depreciation in '98 54.45	002.31
	" 15% " '99 54.45	
	" 15% " '00 <u>54.45</u>	163.35
	Balance November 30th 1900	199.62
	PIG IRON TRUCKS	
20	Iron Trucks	1313.33
8		375.76
-	Less 15% Depreciation in '98 197.00	1689.09
	" 15% " '99 221.46	
	" 15% " '00 221.46	639.92
	Balance Noyember 30th 1900	1049.17

#### CHARCOAL BUGGIES

15 Coal Buggies		\$530.23
Less 15% Depreciation in 15% " "	'98 <b>\$</b> 79	.53
" 15% " "	100	.53 238.5
		291.6
CHARCOAL TR	AM CARS	
2 Charcoal Push Cars		19.2
Less 15% Depreciation in	198 2	.89
Less 15% Depreciation in 15% "	199 2	.89
" 15%	.00 _2	.89 8.6
		10.6
LAUN	СН	
1 36-ft. Naptha Launch, Complet		672.2
Less 15% Depreciation in 15% " 15% "	198 8	4.17
" 15% " "	199 10	0.83
" 15% "	'00 10	0.83 285.8
		386.4
LOCOMO	TIVE	
1 13 X 24 28 Ton Dixon Locomoti	ve	1221.3
1 16 X 24 40 Ton Baldwin "		3043.7
		4265.0
Less 15% Depreciation in		3.20
" 15% " " "		9.76
" 15% " "	'00 <u>63</u>	9.76 1462.7
Balance November 30th, 1	900	2802.3
KILN BAR	ROWS	
6 Wood Barrows		88.9
Less 15% Depreciation in	'98 1	3.34
" 15%, " "	199 1	3.34
" 15% " "	100 _1	3.34 40.0
		48.9

#### PIG IRON LOADERS

28 4 3 1	Slides Dump Cars Short Pieces Wooden Tracks Long Pieces Wooden Track Wooden Horses Switch			
7	Dump TOXAL,			\$ 368.29
	Less 15% Depreciation	in '98	55.24	\$ 000.20
	" 15% "	199	55.24	
	* 15% "	'99	55.24	165.72
	Balance November 30th	1900		202.57
	Balance November 30th	1300		202.01
		SCOW		
1	8 X 16 Flat Bottom Scow		Water Committee of the	14.52
	Less 15% Depreciation	in '98	2.18	
	" 15% "	199	2.18	
	" 15% "	100	2.18 ,	6.54
	Balance November 30th	1900		7 <b>.9</b> 8
	TESTI	NG MACHINE		
1 1 1	50,000 Testing Machine, Auto Complete Set Dies Counter Shaft	with scre	ew Dial Beam	
1	Set Belts			719.80
	Less 15% Depreciation	in '98	107.97	
	" 15% "	199	107.97	
	" 15% "	•00	107.97	323.91
	Balance November 30th	1900		395.89
		V 2 0 V 2	m m n	
	BROWNP	YROME	T E K	
1	Brown Pyrometer			62.00
	Less 15% Depreciation	in '99	9.30	
	" 15% "	*00	9.30	18.60
	Balance November 30t.	h 1900		43.40

#### MATHEWS BARN EQUIPMENT

4	Hanson Wagons @ \$72.81	\$ 291.24
2	Set Whiffle Trees & Neck Yokes @ \$4.00	8.00
8	Halters & Ropes	9.00
4	Set Open Checks	6.00
1	No.22 Collar	3.75
6	Sets Double Heavy Harness	287.70
1	Wagon water Tank and Wood pump	37.72
1	Bay Horse "Bill"	185.00
1	Gray " "Tom"	180.00
1	Black " "Barney"	185.00
1	Black " " Pat"	190.00
1	Chestnut Colt "Cub"	200.00
1	Big Bay Mare "Flossy"	200.00
1	Brown Horse "Jim"	185.00
1	Brown Horse "Dick"	190.00
1	Bay Mare "Maggie"	195.00
1	Bay Horse "Bill"	190.00
1	Gray Horse "Pat"	200.00
		\$ 2743.41

#### TOOLS IN GENERAL USE

#### CHEMICAL PLANT

- 2 Short Hydrometers
- 3 Long
- 2 Short Glass Cylimers
- 3 Long
- 2 Shovels
- 4 Pails
- 2 Brooms
- l Pipe Wrench
- 1 12" Monkey Wrench
- 3 End Weenches
- 2 Hose Wrenches
- 3 Calking Irons
- 2 Funnels
- 3 Lengths 50' Hose
- 1 1 Gal. Measure
- 1 1 " Pitcher
- 1 Boxes Stencil Ink
- 1 Tin Thief
- 1 Set No. 2 Stencil Figures
- 1 Stencil
- 1 2" Reamer
- 1 2-1/2" Reamer
- 2 Hoop Drivers
- 1 #180 Brush for Stencil
- 1 #1 Cooper Adz
- 1 Nonagon
- 2 Sack Needles
- 1 Brl . Filler & Connection
- 1 Reading Glue Kettle 15 X 20 X 17-1/2
- 2 Hammers
- 1 Sledge Hammer(Light)

#### ACETATE PLANT

- 2 Scrapers
- 2 Blowers
- 2 Rakes
- 1 Wheel Barrow
- 1 Short Shovel
- 1 Long
- 2 Scoop Shavels
- 2 Brooms

#### BARN

- L FORK
- 3 Pails
- 1 Shovel
- 3 Brushes
- 2 Lanterns
- 2 Curry combs

2

#### COLLIERS SHANTY

- 1 Stove
- 3 Shovels
- 2
- Motor Hoes 1-Gallon Pails 2
- Whitewash Brushes

#### BOTTOM FILLERS & COAL FORKERS

- 3 Rakes
- 6 Picks
- Sled ge 1
- 8 Torches
- 19 Shovels
  - 5 Coal Forks
  - 2 Pole Picks
  - 4 Scoop Shovels
  - 4 1/2" Steel Bars
  - 3/4" " " 6
  - 2 Car Starting Bars

#### CASTING HOUSE

- Hooks
- Torches 7
- 3 Shovels
- 2
- 3/4\* Bars 1-1/4" Bars 3
- Notch Hooks 3
- 3 5 Pig Patterns
  - 1 Sow
- 8
- Heavy Sledges Light Sledges 2
- 3 Scoop Shovels
- Long Hamiles Hoes Cimer Barrows 2
- 2
- 6 1-1/2" Breaking Bars

#### TRACK TOOLS

- 3 Chisels
- 1 Claw Bar
- 1 Spike Maul
- 3 mTamping Bars
- Track Gauge 1
- 1 Jack Complete
- 3 Sampson Car Pushers
- 7 Jack Screws

#### CINDER TOOLS

- 3 Bars
- 6 Shovels
- 4 Coal Forks
- 4 Single Picks

#### BLOWING ENGINE HOUSE TOOLS

- 4 2 Gallon Cans
- 3 Squirt Cans
- 1, 8" Monkey Wrench
- 1 12"
- 1 18" Koney "
- 1 Steel Cylinder Oil Pot
- l Oil Filter
- 1 Weimer Blowing Engine
- 1 Hempell
- 1 Prescott Condenser
- 2 Duplex Worthing Pumps 14 X 10 X 14
- 1 " Prescott " 8 X 5 X 10 /
- 2 No. 5 Knowles
- 2 No. 0 Filter
- 1 Cross Oil Filter

#### DYNAMO

- 2 2 Gallon Cans
- 3 Squirt Cans
- 1 Gibbs Dynamo
- 1 Westinghouse Dynamo
- 1 Western
- 1 18" X 12" Russell Engine

#### CHEMICAL BOILER HOUSE

- 1 8" Money Wrench
- 1 12" Monkey Wrench
- 1 21" "
- 4 2 Gallon Cans
- 2 Squirt Cans
- 700 Ft. 2" Fire Hose

#### CRANE HOIST ENGINE

- 2 2 Gallon Cans
- 3 Squirt Cans
- 1 Steel Cylinder Oil Pot
- 1 Puenmatic Pyrameter

N

#### LOCOMOTIVE

1 Squirt Can

8" Monkey Wrench 1

1

Baldwim Locomotive 16 X 24" 1

Dixon " 13 X 22

#### ORE CRUSHER

1 Broom

2 Shovels

2 Picks

2 Hammers

1 Scraper

. 1

Gates crusher No.3 10" X 14" Russel Engine

#### ALCOHOL HOUSE

- Frame Building 57 X 141' 20 Smake Condensers
- 1 Liquor Cooler
- 2 Settling Tanks
- Tar Tanks
- 4 Storage Tanks
- Primary Stills with Condensers 13
- Neutralizing Tanks 2
- 4 Liquor & S ettling Tanks
- Wooden Fractional Stills equipped with Burrey fans
- 4 Steel Stills Equipped with copper columns
- 4 Wooden Storage Tanks, intermediate liquor
- 1 Copper Column and still
- 1 Steel Refining Still
- Galvanized Tanks for high proof & Finished Alcohol 4
- 1 No. 4 Knowles Pump

#### CHEMICAL ENGINE HOUSE

- 1 Frame Building 66 X 66'
- 1 Prescott Duplex Pump 14' X 12' X 14' No. 241
- 1 Special Duplex Brass Fump 7 X 4-3/4 X 8
- 1 Duples Pump 14 X 7 X 14 No. 285
- 1 8 X 10 Vertical Engine
- 2 Boilers 5-1/2 X 16
- 2 5 X 16
- 1 5X16
- 3 42" Copper Fans in wood cases
- 1 Westinghouse Engine 15 H.P.
- 1 9 X 14 X 14 Russell Compound Engine
- 1 Prescott Duplex Pump 8 X 5 X 10
- 1 Cross Oil Filter

#### ACETATE PLANT

- 1 Frame Building 28 X 90'
- 1 Drying Floor 70 X 9\*
- 1 Draining Tank
- 1 No. 1 Pan 15' X 5-1/2' X 3
- No. 2 15-1/4 X 5-1/2 X 2'10 No. 3 15' X 5-1/2' X 2' 1
- 1
- 1 No. 4 15' X 5-1/2' X 3'
- Rectangular Settling Tanks

#### MISCELLANEOUS BUILDINGS

- 1 Brick Machine Shops 30' X 85'
- Frame Blacksmith Shop 20' X 30'
- 1 Brick Vineer Locomotive House 28' X 78'
- 1 Frame Car Repair Shop 24' X 95'
- 1 " Ice House 18' X 30'
- 1 " Fire Clay House 14' X 48'
- 2 " Dock Scale Houses 5' X 6' each
- 1 " Collier Shanty & Lime House 14' X 65'
- 1 " Barn 30' X 30' X 35'
- 1 " Track Scale House 6 X 9'
- 1 " Office Building 36' X 42'
- 1 8 Room Cottage
- 15 Double Tenement Houses -5 rooms each
  - 1 Frame Oil & Warehouse 16' X 28'
  - 1 " Coal Shed 12' X 36'
- 1 " Acetate Storage House 14' X 96'
- 1 " Supply House 14' X 24'
- 1 " Floating boat house 15' X 39'
- 1 " Coal Shed 12' X 24'
- 1 " Crusher Engine House 12' X 16'

#### DWELLINGS IN GLADSTONE

- 1 Managers Residence (Occupying Lots 25-26-27-28 in South
- 1 Barn (Shore Addition Block 2.
- Barn Boss's House occupying Lots 6-7 South Shore Addition Block 2.
- 1 Clerks House, occupying Lots 23-24 S.S. Addtn. Block 2.
- 1 Master Mechanics House Occupying Lot 6 Block 24 Orig. Plat
- 1 Boat House 12' X 28', Foot Central Ave.

#### TRACKS

11675 Ft. Yard Track, - 60# Rail

2700 " Pig Iron Track, - 20# Rail

720 " Track Between Kilns 20# Rail

#### TRESTLES

1505 Ft. Ore Trestle

1201 " Kiln "

#### SMOKE MAIN

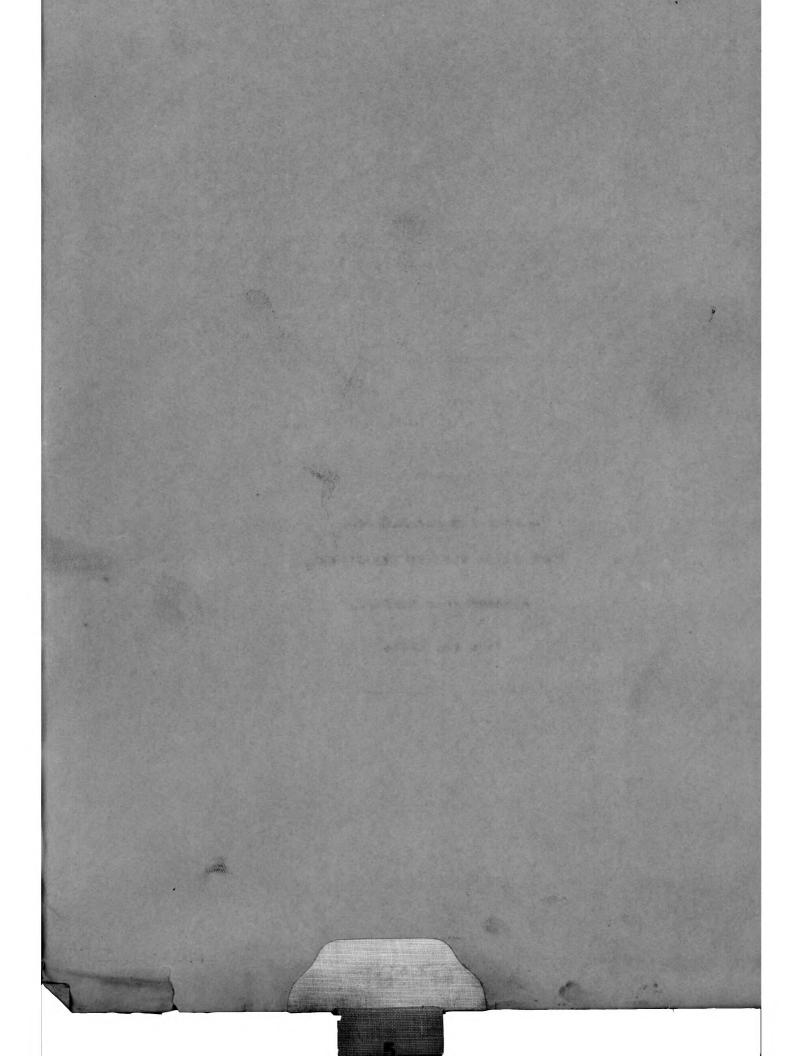
1950 Ft. Smoke Main

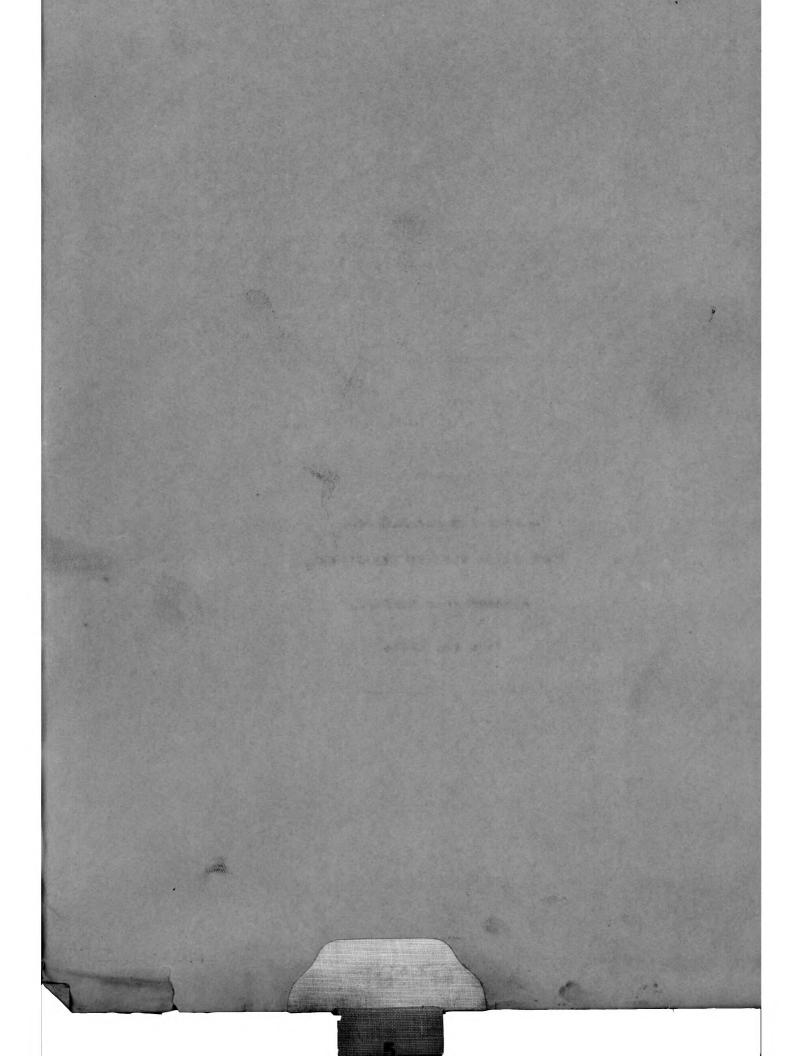
#### TELEPHONE LINE

Furnace Office to Gladstone Postal Office, -3 Miles
Postal Office to Manager's, Founder's & Master Mechanie's
Residences, - 2 Miles including Brackets, insulators & Poles
Machine Shop to Master Mechanic's, - 3 Miles including brackets,
insulators & poles

1x

# 





# INVENTORY.

CARP RIVER FURNACE DEPARTMENT,

PIONEER IRON COMPANY,

NOV. 30, 1900.

# INDEX.

Description of Land,		P	age.
Description of Furnace and Buildings,	4,	5,	6
Tools Bought with Furnace,		6,	7
Inventory			
Ores,		8,	9
Limestone,			9
Charcoal,			9
Fuel,			9
Insurance,			9
Pig Iron,			9
Furnace Inventory Acct.,	Michael		
Office,			10
Yard,			10
Laboratory,		10-	11
Reagents on Hand,			12

Commencing at the intersection of the easterly line of Lake
Street, so called, in the City of Marquette, County of Marquette and
State of Michigan, as now used, with the section line between sections
26 and 35, Township 48 North, Range 25 West; running thence northwesterly along the easterly line of said Lake Street to its intersection
with the westerly line of the right-of-way of the Duluth, South Shore
& Atlantic Railway Company; thence southeasterly along the westerly line
of said right-of-way to its intersection with the section line between
said above named sections 26 and 35; thence west along said section
line to the point of beginning.

Also that portion of Government Lot numbered one (1) of Section 36, Township 48 N. Range 25 W. not sold to the State of Michigan for a portion of the State Prison site.

Also lots eighty-four (84), eighty-five (85) and eighty-six (86) of Burt & Ely's Addition to the Village (now city) of Marquette; and that part of Sec. 35, Township 48 North, Range 25 West, lying east of Lake Street, as shown in the Plat of Burt & Ely's Addition to the Village of Marquette, as now used; and also that part of Section 35, Township 48 N. Range 25 W. lying south and east of the following boundary line: Beginning at the southeast corner of Lot 87 of Burt & Ely's Addition to the said City of Marquette; thence along the south line of said Lot eighty-seven (87) to the southwest corner of said Lot 87; thence south 2 degrees and 58 minutes east 100 feet; thence south 13 degrees and 58 minutes east 100 feet; thence south 26 degrees and 28 minutes east 100 feet; thence south 43 degrees and 58 minutes east 100 feet; thence south 49 degrees and 28 minutes east 100 feet; thence south 30 degrees and 59 minutes east 100 feet; thence south 11 degrees and 49 minutes east 100 feet; thence south 5 degrees, 11 minutes west 100 feet; thence south 13 degrees and 51 minutes west 425 feet; thence south 5 degrees and 9 minutes east 432 and five-tenths feet; thence

south 13 degrees and 11 minutes west 1100 feet; thence south 57 degrees and 31 minutes west 2080 feet to a point 358 feet east of the northwest corner and on the north line of the south half of the southeast quarter of Section 35, Township 48 N. Range 25 W. It being agreed between the said parties that lot eighty-seven (87) of Burt & Ely's Addition to the Village (now City) of Marquette is to be kept open as a highway for the common use of the grantor and grantee, and their successors and assigns.

#### ----X-----

#### DESCRIPTION OF FURNACE AND BUILDINGS:

STACK:  $58\frac{1}{2}$  feet high by 10-foot bosh; hearth 5' 9": Equipped with bell and hopper. The first 40 feet of casing is built of sandstone, and balance is cage made of railroad iron, which supports the top-house.

The hoist tower is equipped with an Otis hoist, two skips, driven by small engine, which also drives crusher when used.

ENGINE ROOM: The engine room is a stone building 65' x 30' and 25 feet high, built with the intention of sometime putting in a modern upright blowing engine.

The blowing engine is of horizontal type, with two blowing cylinders 40" x 6°, made by Iron Bay Foundry at Marquette in 1873.

In basement of engine room there are two Smith & Vaile pumps, 12" steam by 7" water cylinders, and one Knowles boller pump, about 8" x 4".

THE BOILER HOUSE is built of stone, with corrugated iron roof, except the rafters, and is 28 ft. x 30 ft. in size. There are two two-flue boilers, 22 ft. x 47 in., and one old marine boiler, about 16 ft. x 6 ft., all connected to one steam main.

THE STOCK HOUSE is 190 ft. long by 65 ft. wide, built of timber and covered with currugated iron, the roof being tar and cement. In it

are three trestles for railroad tracks, the rails being 17 feet from the floor under the trestles. Two of these tracks are used for ores and limestone and one for charcoal cars. In this basement is situated the crusher, one of the Blake type, made at Ansonia, Conn.

HOT BLASTS: No. 1 is built near the stack, on the hearth level, and has 25 large pipes. On account of its construction, this hotblast has never been a success, the pipes not heating evenly and making an unequal expansion and contraction, finally cracking one or more of the pipes. After repairs this hotblast would usually run about four months, when it would again need repairs.

No. 2 Hot Blast is built on an arch supported by the engine room wall and the stone stack, and now has 18 pipes. This was originally built in 1873, but this fall all the old pipes and material were removed and new castings were put in, at a cost of \$2158.28, which has keep been charged to cost of iron. From the experience at other furnaces with this type I shall expect this oven to last a long time.

THE CASTING HOUSE, 62 by 44 feet, has stone foundation, and timber frame, covered by corrugated iron: At lower end is a shed 12 ft. wide, in which are the pig iron scales, and in rear of this a black-smith and carpenter shop, 16 ft. wide.

STORE HOUSE: An old building 24 by 16 feet, about 50 feet from carpenter shop, used for storing tools, &c.

BARN: 20 x 28 ft, a building on west side of Lake Street, near outlet to Carp River.

KILNS: Ten 25-cord bee-hive kilns on north side of Carp River, under bank from which they are filled. Also fine 45-cord bee-hive kilns on south side of Carp River.

These kilns are built of brick and stone, and are used by Chas. H. Schaffer under his contract with the company.

OFFICE BUILDING: A one-story wooden building, 30 ft. x 20 ft., built on Lot 86.

LABORATORY BUILDING: Attached to rear of office building, --18 x 20 ft.

THE THE PERK OF

HORSE SHED: On rear of Lot 86, -- 12 ft. x 22 ft.

RAILROAD TRACKS: Consist of three sidings into the stock house, with switch stands, &c. One track from the main siding, crossing Lake Street to the north side kilns, then running down to lower level, with switch back to iron yard.

Also siding to south side kilns, with switch back in rear of kilns.

All the equipment of rails, &c., for these sidings were furnished by the Duluth, South Shore & Atlantic Railway Company, the ties being furnished by Schaffer & Gray when the tracks were laid.

THE R. P. LEWIS CO., LANSING, MICH.

#### TOOLS, &c., BOUGHT WITH FURNACE.

2 Steam Gauges in use 3 Lubricators in use 1 Set Pipe Dies and Taps About 25 Spanner and Socket Wrenches

About 15 Chisels and Punches 1 12" Monkey Wrench

1 16" Trimeau Pipe Wrench About 300 feet Rubber Hose, new and old

2 Pressure Gauges 1 Pipe Cutter

2 Die Stocks

2 24" Monkey Wrenches 1 14" Monkey Wrench

1 Set Pipe Tongs

2 Lanterns

4 Kerosene Lamps

2 Brass Hose Nozzles Varied lot of pipe fittings in basement

#### Above in ENGINE ROOM.

(Tools, &c., Cont'd on Page 7)

#### IN STOCK HOUSE:

20 Charcoal Buggies Shovels and Picks

1 Set Ore Scales 1 Set Charcoal Scales 3 Ore Buggies 3 Pinch Bars

#### IN CASTING HOUSE:

About 25 Steel and Iron Bars and Stopping Hooks Gates, Staples, Skimmer, &c. 3 Heavy Sledges Shovels, Rakes and Screens, Patterns and Sow, 2 Stationary Byrometers 1 Portable Byrometer

#### IN BLACKSMITH SHOP:

1 Anvil, Forge and Bellows

1 Ratchet Drill

Tongs, Punches and other common tools Tongs, Punches and 1 Machine Drill Press

1 Blacksmith Vise 1 Set Lightning Taps and Dies

2 Monkey Wrenches

12 Drills

1 Blacksmith Sledge

#### IN CARPENTER SHOP:

2 Handsaws 1 Crosscut Saw 3 Chisels 1 Brace and Bits 1 Hand Ax 1 Square l Jack Plane l Set light Blocks 1 Grind Stone 1 Set 14" Blocks
About 200 feet of 14" Rope, old 2 Log Chains
2 Jack Screws 2 Jack Screws 1 Crab Winch

Also placing on more a few siles, while prince come in rock or

Total tax the thing delete

#### IN YARD:

l Set Scales for weighing Pig Iron.
l Iron Car 3 Wheelbarrows 2 Carts Shovels and Picks 1 Cart Harness

#### IN OLD STORE HOUSE:

About 1000 Old Fire Brick.

#### IN ORE YARD:

1/2 of Set of Railroad Scales.

#### INVENTORY OF ORES ON HAND NOV. 30, 1900.

#### ----X----

#### SALISBURY ORE:

Bin No. 5, -- 5 Cars.

In Bin No. 3, In Stack, 80 Chgs.,  $353\frac{1}{2}$ ,

Total Salisbury, 140-1922 tons, @\$2.85,

\$ 401.44

#### LAKE ORE:

Bin No. 2, -- 3 Cars.

511.00 

80 Chgs. of this in Stack.

Total Lake, 66-2200 tons,

@\$2.85,

190.90

#### EAST JACKSON ORE:

158-710 tons

237.48

#### SECTION 12 ORE:

In Bins Nos. 6 and 7.

Car 3707 

592280, 264-920

264-920

\$829.82

Amounts forward,

(Sec. 12, Cont'd)	Brought	forward,	264-920 (	Sec.12)	\$ 829.82
In Cars	, si esse				
3833 3960 3855	47640	137760 =	61-1120		
In open bin	and in stack,		31-1234		
	Total Section	12,	357-1034	@\$1.65,	589.81
	Total Ore,	-	-723-1386	•	\$1419.63
	現影 高明四年	SARL SE	0.00,		
		X			
	A Series Series				
LIMESTONE:					
545-2015 gro	oss tons,	@\$2	.50	*	1364.75
CHARCOAL:					
In Stack, 80	Chgs., 25 Bt	us., 2000 I	Bus., @ 8	-3/4¢	175.00
FUEL:					
4 Cds. Slab	s, @\$2.25,				9.00
			S KAT AND		
INSURANCE:					
Balance of I	Policies, Fire	e, Boiler	and Casualty	, _	330.09
Total Inventory of	f Materials on	hand Nov	30, 1900,	- \$	3298.47
The state of the s			Carried to Contract		
PIG IRON ON HAND:	de la company	AAT TO		J. L.	

@\$15.14,

\$ 16971.94

1121 Gross Tons,

#### FURNACE INVENTORY ACCOUNT.

#### ---X---

OFFICE:		
1 Fire Proof Safe,	\$ 50.00	
	20.00	
1 Desk,	10.00	
1 Letter Press and Stand,	10.00	
1 Standing Desk,	5.00	
1 Revolving Chair,	2.00	
2 Arm Chairs,	2.00	
3 Waste Paper Baskets,	1.50	Control of the Contro
2 Cuspidors,	1.00	And the second s
1 Stove and Pipe,	5.50	
1 Set Letter Scales,	3.00	Visit State of the Control of the Co
4 Bill Boards,	1.00	The state of the s
1 Door Mat,	1.25	The second secon
2 Letter Baskets,	1.00	
1 Canopy Top Buggy and Harness,	50.00	The state of the s
	163.25	
1 No. 7 Remington Typewriter,	100.00	Commence of the second
The state of the s	263.25	
Less 20% Charged to Operating,	52.65	\$210.60
YARD:		- 1
1 Chartest Towns	150.00	manual Roman State State Control
1 Chestnut Horse,		120.00
Less 20% Charged to Operating,	30.00	120.00
LABORATORY:		
1 Prof. Richards Fil. Pump,	1.31	
1 Sargent's Anal. Balance,	90.00	Contragation in Artistance
l Baker Scales,	6.80	
1 Set Gram. Wts.,	11.90	
½ Doz. ½ liter Reagent Bottles	1.00	AND THE RESERVE OF THE PARTY OF
3 C. H. Brushes, $\frac{1}{2}$ ",	A STATE OF THE PARTY OF THE PAR	

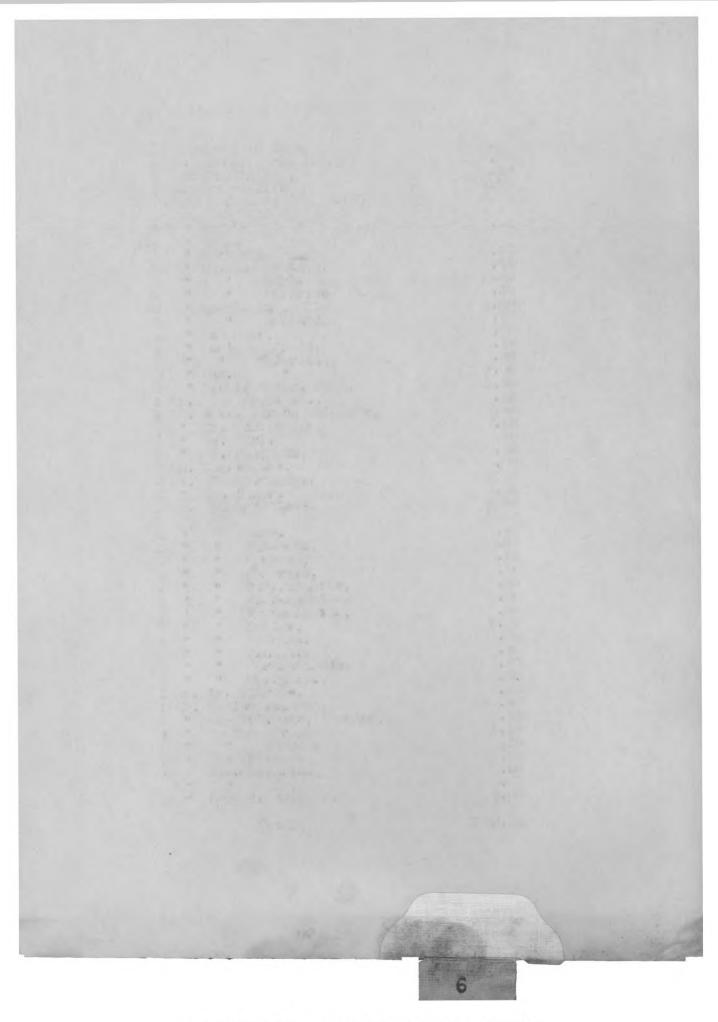
l Prof. Richards Fil. Pump, l Sargent's Anal. Balance, l Baker Scales, l Set Gram. Wts., l Doz. l liter Reagent Bottles l C. H. Brushes, l",	00 80 90 00 45
1 Set Gram. Wts.,  ½ Doz. ½ liter Reagent Bottles  3 C. H. Brushes. ½"	00
½ Doz. ½ liter Reagent Bottles 1.0	45
3 C. H. Brushes - 1"	
0 00 110 110 1100 1 2 1	38
1 " " 2"	-
1 Doz. "	37
3 Dangler Gas Burners, 4.	50
2 50cc Buretts Grad. 1/10	53
1 75cc " " " 3.0	00
1 50cc " " " 1.	50
5 Val. Floats,	87
3 Clamps, 2.	25
½ Doz. Calcium Tubes, 6",	68
1 6"	99
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	80
1/3 Doz. " " 6"	
A CONTRACTOR OF THE PROPERTY O	54
	90
1 Plate and Rubber, 7.	
1 Prof. S. Burette,	
1 Gaisslers " 2.	
Forward (Laboratory), 145.	71
Totals Forward,	
χο.	

330.60

```
$145.71
      Laboratory Forward,
Doz. Por. Evap. Dishes, 4-3/4",
                                          2.48
                                          7.50
1 Dry Oven,
2 Dessicators, 4-3/4,
                                          1.20
                                          1.13
 Doz. Flsks, 16 Oz.,
                                           .81
                8
                8
                                          1.12
                                           .45
1 500 cc Flask,
                                           .38
1 300 cc
                                           .22
1 100 cc
                                           . 57
1 1000cc
                                           .75
1 2000cc
 Doz. Funnels, 3" Diam.,
                                           .68
                                           .45
                6"
                 2"
                                           .22
                                           .94
  Sap. Funnel, 100cc,
                                           .75
                                           .75
1
                                          1.13
                                           .75
  lbs. Glass Tubing,
                                           .75
             Rods,
  500cc Grad. Cylinder,
                                           .90
                                           .60
1 250cc
1 Alcohol Lamp 6 oz.,
                                           .26
                                          6.00
1 Mortar, 3-Gal.,
                                           .23
   - 19
           2-Pt.,
                                           .75
 200cc Pipette,
                                           .60
   50cc
1
   10cc
                                           .15
                                           .11
1
    5cc
                                           .67
   25cc
1 Pt. Cone, Dia. top 14",
                                          4.50
  " Crucibles and one cover,
                                         27.37
                                         15.86
1
 100-Mesh Sieves,
                                          2.10
                                           .50
   40
                                           .75
1 Support,
                                           .38
                                          1.27
1 Thermometer, 200°C,
                                           .38
1 Tripod, Dia. 6",
1 Wedge Wood Mortar, 6" Dia.,
                                           .81
1 Agate Mortar,
                                          6.75
                                          1.50
1 Diamond Mortar,
                                           .75
1 Hydrometer,
                                          1.65
1 Graduate,
                                           .49
1 70243 Supports,
1 Magnet,
                                            .68
                                         25.00
1 Weatherhead Crusher,
                                         15.00
Haskin's Burners Stock,
                                                        XXXXXXX
            Total Laboratory,
                                        284.75
                                        52.45
Less charged to Operating April 30,
                                        232.30
                                                        209.82
Less Chgd. to Operating, as bought,
Total Furnace Inventory Account,
                                                       $540.42
```

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.80
  1# Microcosmic Salt,
                                               .50
  4 Oz. Hydroflouric Acid,
                                                 .40
  1#L'Acetic Glacial,
                                            8.75
 5 Carboys, @$1.75,
75# H. Cl. S. G. 130, @ 8¢,
2 Lbs. Molybdic Acid,
                                               6.00
                                               3.60
3/4 " Oxalic, "
150 " H2SO4 "
                                                 .30
                          @ 8¢
                                              12.00
                                                .40
      " Tartaris,
      " Amonium Acetate,
                                                 .44
      " " Carb.
" Chloride,
                                                 .40
      " Amonia H2O, @ll¢,
" Oxalate,
" Asbestos,
" Borium France
                                                 .32
                                                4.40
 40
    " Oxalate,
                                                 . 52
     " Asbestos,
                                               .80
                                                 .15
      " Borium Hydrate,
    " Chloride,
                                                 .20
      " Cad.
                11
                                               1.00
     " Double Chlor. Cu&K,
                                               1.44
                                                 .32
  1 Oz. Iodine, Resub.,
  1 Lb. Amon. Ferrus Sulphate,
                                                 .40
    " Pb. Per. Oxide,
                                                .40
                                                 .40
       Mg. Carb.
    Mg. Sulphate,
                                                 .20
  2 Oz. Glass Wool,
                                                 .80
  1 Lb. Bi-Chlor. Hg.,
                                               1,12
                                                .28
  1 " Mg. Chlor.
                                                1.20
  1 Oz. Phenaacellene,
  1 Lb. Pot. Bi-Chromate,
                                                 .40
     Carb.
Chromate,
Hydrate,
Chlorate,
Chlorate,
Ferricyanide,
Hyposulphate,
Iodide,
Nitrate,
Oxalate,
Permanganate,
Phosphate,
        " Carb.
                                                .48
                                                 .60
                                                 .64
                                               .40
                                              .60
                                                 .60
                                                 .50
                                                2.40
                                                .28
                                                 .48
                                                .26
                                                .50
                                                 .60
  1 Oz. Ag. Nitrate,
  1 Lb. Sodium Acetate,
1 " Bi-Carbenate, (Sodium),
                                                 .28
                                                 .24
        Sodium Carbonate,
                                                1.12
    " Hydrate,
" Tin Chloride,
" Zinc Chloride,
  1 "
                                                .60
                                                1.44
  1
                                                 .40
         " Oxide,
                                                6.00
 10
         Chromic Acid, C.P.
                                                2.00
  1
               Total,
                                             $ 68.36
```

Should Wilney mags



# DETAIL STATEMENT OF ACCOUNTS INDEX

#### ----000----

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#### OPERATING LAND DEPARTMENT.

#### ---000----

	1899	1900	
Insurance on Rented Houses,	47.42	58.25	
Insurance on Buildings,	60.85	48.34	
Repairing Rented Houses,	479.80	403.31	
Repairing buildings,	210.08	37.40	
Expense; Driving Horse,	137.53	145.94	
Salaries,	2250.00	2250.00	
Expense of Lands,	481.06	370.23	
Expense of Timbered Lands,	184.07	271.21	
Taxes on Rented Houses,	297.84	520.24	
Taxes on Vacant Lots,	187.88	288.53	
Taxes on Lands,	5712.51	6629.99	
Taxes on Timbered Lands,	1860.76	2108.01	
Expense of plants for office yard, -	125.45	120.00	
Street Improvement in Pioneer I.Co., 2nd Add	160.88	107.11	
Depreciation on Inventory, "Gen'l Supplies"		47.72	1
Total,	\$12284.12	\$13406.28	

# OPERATING NURSERY

4. T. P. S. Co., W. S. Co., S.	1899	1900	
Nursery Cultivation,	254.05	600.27	
Expense; Salesman,		143.00	
Depreciation on Inventory, "Nurs	ery Supplies" 194.62	55.35	
Total,	\$ 448.67	\$ 793.62	

#### OPERATING GREENHOUSE.

		1899	1900
	Labor,	1316.89	1422.41
	Miscellaneous Expense,	459.19	390.92
1	Fuel,	494.68	391.42
	Freight & Express,	51.29	47.64
	Cut Flowers Bought,	114.70	13.00
	Taxes on Greenhouse Plant,	25.90	42.96
	Insurance,	50.63	50.63
	Depreciation on Inventory, "G.H. Supplies"	167.75	315.13
	Total,	\$2681.03	\$2674.11

#### OPERATING HOUSTON FARM.

	1899	1900
Seed grain bought,	48.74	100.39
Feed Bought,	445.22	469.36
Miscellaneous Expense,	78.75	348.22
Labor,	252.41	1484.28
Repairing old buildings,		56.79
Insurance,		13.33
Depreciation of Improvement Acct (i/8)		449.96
Total,	\$ 825.12	\$2922.33