THE CLEVELAND-CLIFFS IRON CO.
NEGAUNEE MINE
INVENTORY OF BUILDINGS
MACHINERY AND EQUIPMENT.
SEPTEMBER 1st, 1903.
## Recapitulation of Inventory

### Negaunee Mine

### Buildings and Plant

<table>
<thead>
<tr>
<th>Item</th>
<th>Page</th>
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<tbody>
<tr>
<td>Mine Buildings</td>
<td>1</td>
<td>14401.00</td>
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<tr>
<td>No. 1 Boiler Plant</td>
<td>2-3</td>
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<tr>
<td>&quot; 1 Hoisting &amp; Compressor Plant</td>
<td>4-6</td>
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<tr>
<td>&quot; 2 Boiler Plant</td>
<td>7-8</td>
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### Miscellaneous Machinery

<table>
<thead>
<tr>
<th>Item</th>
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<tbody>
<tr>
<td>Portable Hoists</td>
<td>9</td>
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<td>Steam Pumps</td>
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<tr>
<td>Power Drills</td>
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<tr>
<td>Air Receivers</td>
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### Cars, Skips, Tracks etc.

#### Surface & Underground

<table>
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<tr>
<td>Tracks No. 2 Trestle</td>
<td>45</td>
<td>243.71</td>
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<td>&quot; 1</td>
<td>45</td>
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<td>&quot; Underground, buried in sand</td>
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<td>&quot; Bottom level</td>
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<td>&quot; Cage</td>
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### Steam, Water and Air Line

#### Surface & Underground

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<tr>
<td>Steam Line to Winze Pump</td>
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<td>284.64</td>
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<td>Water &quot; No. 1 to No. 2 Boiler House</td>
<td>14</td>
<td>385.63</td>
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<td>Steam &quot; 1 Boiler H. to No. 1 Shaft</td>
<td>14</td>
<td>238.94</td>
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<td>Air &quot; 1 &quot; &quot; Air Receiver</td>
<td>14</td>
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<td>&quot; Receiver to No. 1 Shaft</td>
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<td>Heating Plant- various buildings</td>
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<td>Air Line from No. 1 to Blacksmith Shop</td>
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<td>Water &quot; Pump in Open Pit</td>
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<td>Steam &quot; No. 2 Boiler House to Shaft</td>
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Forward...

2227.87  56,181.84
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<tr>
<td>Water Line NO. 2 shaft to NO. 2 Boiler House,</td>
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<td>&quot; Skip, Pit Pump bottom #2 shaft,</td>
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<td>&quot; 3&quot; Discharge through Level,</td>
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<td>Steam &quot; To Powder House,</td>
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<td>&quot; &quot; Lane Hoist,</td>
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<td>Air &quot; from Lane Hoist to Old Shaft,</td>
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<td>56.26</td>
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<td>&quot; &quot; to Blacksmith Shop-underground,</td>
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<td>Main Steam Line,</td>
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<td>Steam &amp; W.Line Bottom Level NO. 2,</td>
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<td>&quot; &quot; &quot; Hoist under'd.at No. 5 Incline,</td>
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<td>Water &quot; NO. 1 Cage Level Suction to Pump,</td>
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<td>Steam &quot; Suction to Condenser,</td>
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<td>Water &quot; Discharge of &quot;</td>
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<td>Main Steam Pipe NO. 2 Shaft,</td>
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<td>&quot; &quot; NO. 5 Incline,</td>
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<td>&quot; &quot; 2&quot; Line to NO. 6 Drift,</td>
<td>39</td>
<td>72.76</td>
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**Total:** 62,184.55
## Recapitulation of Inventory

### Miscellaneous

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<th>Item Description</th>
<th>Page</th>
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<tr>
<td>Pipe &amp; Fittings idle between No.1 B. &amp; No.1 E.H.</td>
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<td>Idle on Hill at No.1 Boiler House,</td>
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<td>Tools at Bottom of Winze,</td>
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<td>Idle on Surface by No.2 Boiler House,</td>
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<td>Fittings not in use- bottom No.2 Shaft,</td>
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<td>Pipe &amp; Fittings not in use No.1 Cage Level,</td>
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<td>Material not in use No.1 Shaft,</td>
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<td>Pipe &amp; Fittings-Bottom No.3 Incline,</td>
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<td>Top Pump House,</td>
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<td>Supplies at Pump,</td>
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<td>Pump House at Bottom No.2 Shaft,</td>
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<tr>
<td>Wire Rope- Old and in use,</td>
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<td>&quot; &quot; &quot; Guides for pump in pit,</td>
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<td>Manilla Rope- Old and in use,</td>
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<td>Blocks</td>
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<td>Wheelbarrows- surface,</td>
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<td>No. 1 Stockpile Bottom,</td>
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<td>Horses &amp; Mules,</td>
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<td>Wagons &amp; Sleighs,</td>
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<td>Tools In Blacksmith Shop underground,</td>
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<tr>
<td>&quot; &quot; &quot; &quot; surface,</td>
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<td>Sheaves,Skips and cage line,</td>
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<td>Office Furniture,</td>
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<td>Carpenter Shop Tools,</td>
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<tr>
<td>Drill Steel Scrapers,etc.</td>
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<td>153.50</td>
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Supply Account, as per separate Inventory,

Grand total, $75,000.00
BUILDINGS.

NO. 1 Engine House, Building $1000.00
   Engine Foundation $1200.00
   Compressor $300.00
NO. 1 Boiler House $2500.00
NO. 2 Boiler House $900.00
NO. 1 Shaft House $1000.00
NO. 2 Shaft House $2000.00
NO. 1 Coal Dock $200.00
NO. 2 Coal Dock $700.00
Ore & Rock Trestle NO. 1 $150.00
" " " NO. 2 $150.00
Ore Pocket at NO. 1 $150.00
Carpenter Shop $200.00
Blacksmith Shop $50.00
New Dry House $1500.00
Office $350.00
2 Rope Lines NO. 1 E.H. to NO. 2 Shaft $250.00
Coal Tram to NO. 1 Boiler House $350.00
Water Launder NO. 2 Shaft to swamp (1300 ft.) $1100.00
Water Pipe Launder #1 E.H. to NO. 2 Blr. H. $75.00
Steam Pipe Launder #1 E.H. to Dry $75.00
Supply shed near office $10.00
Water Closet $16.00
Derrick 34 ft. Mast- 90 ft. Boom $75.00

Total Buildings, $14,401.00
NO. 1 BOILER HOUSE.

1 Return Tubular Boiler, 72ft x 20ft. Lot No. 7.
1 Return Tubular Boiler, 72ft x 20ft. Lot No. 8.
1 Return Tubular Boiler, 72ft x 20ft. Lot No. 9.

In one battery.

36" x 70ft. Smoke Stack with Breechings.

3 No. 5 Reliance Water Column

3 Steam Gauges, 8inh, 63 ft. 3/4" Pipe.

3 1" Elbows. 2 Pr. 1" Flanges.
6 3" Tees. 4, 1 1/4" Stop Cocks (brass).
4 1 1/4" four-way tees. 4, 1 1/4" Unions.
3 1 1/4" Elbows. 3, 1" Globe Valves.

36 Ft. 1" Pipe. 11 Ft. 1 1/4" Pipe.
1 1 1/4" Tee. 4, 1 1/4" Elbows.
3 4" Pop Safety Valves. 1, 6" Gate Valve.
2 6" Jenkins Globe Valves. 3-2" Angle Valves.
3 2" Check Valves. 6. 3" Globe Valves.
10 Pr. 5" Flanges. 9, 2" Globe Valves.
3 2" Gate Valves. 157 Ft. 3" Pipe.

36 Ft. 8" Pipe. 12 " 6" 

196 " 2" 

23 " 2" Elbows.
10 Pr. 2" Flanges. 3, 2 1/2" Stop Cocks.
2 2 1/2" Globe Valves. 2, 2 1/2" Gate Valves.
4 Pr. 2 1/2" Flanges. 1, 2 1/2" Union.

119 Ft. 2 1/2" Pipe. 4, 3" to 2" Bushings.
7 3" Elbows. 6, 2 1/2" Elbows.

1 4" Jenkins Globe Valve. 4, 4" Tees.
2 5" Elbows. 2, 5" Tees.
2 5" to 2 1/2" Bushings. 27ft. 5" Pipe.
3 Pr. 8" Flanges. 3, 8" Tees.
3 8" Globe Valves. 6, 2" Tees.
2 2" Check Valves. 1, Hancock Inspinatior No. 40

Forward: 6300.00
<table>
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<th>Quantity</th>
<th>Units</th>
<th>Price</th>
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<td>Ft. 4&quot; Pipe</td>
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<td>2 4&quot; Elbows</td>
<td>1, 10&quot; Gate Valve, flanged (Idle)</td>
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<td>1 10&quot; Tee (idle)</td>
<td>4, Pr. 10&quot; Flanges (idle)</td>
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<td>2 10&quot; Elbows (idle)</td>
<td>1, 10&quot; Kelley Back-pressure Valve</td>
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<td>64 Ft. 10&quot; Pipe</td>
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<td>1 Marsh Pump- 4x4 1/2 x 6</td>
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<td>1 #5 Cameron Pump- 14 x 10 x 12</td>
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<td>1 2 1/2&quot; Oil Cup</td>
<td>7, 1/2&quot; Globe Valve</td>
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<td>(1, Pr. 1 1/2&quot; Flanges)</td>
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<td>2 1 1/2&quot; Tees</td>
<td>1, #7 A Vacuum Pump</td>
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<td>1 Lubricator, #2 Volunteer</td>
<td>1, Clock</td>
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<td>2 3&quot; Plugs</td>
<td>2, 2&quot; Stop Cocks</td>
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<td>2 Schoop Shovels</td>
<td>1, Iron Wheel-Barrow</td>
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<td>1 Poll Pick</td>
<td>10, Ft. 1&quot; Steam Hose</td>
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<td>1 Pocker</td>
<td>1, - Scraper</td>
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<td>1 Electric bell</td>
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<td>1 2&quot; Whistle</td>
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<td>100 Ft. 2&quot; Cotton Mill Hose</td>
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<td>3 10x10x7 Tees</td>
<td>2, Hose Spanners</td>
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<tr>
<td>1 Steam Trap for cooling</td>
<td>4, Box Wrenches</td>
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<td>5 Spanner Wrenches</td>
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<td>34 Ft. 8&quot; Steam Pipe Covering</td>
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<td>For all piping as above</td>
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<tr>
<td>1 Water Tank</td>
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NO. 1 ENGINE HOUSE.

1 24 x 48" Webster, Camp & Lane Corliss Engine, Lot No. 1, Shop No. 279, $9000.00
1 Air Compressor Lot No. 6, Shop No. 2075 $3000.00
1 10" Tee. 32 Ft. 10" Exhaust Pipe.
82 Ft. 3" Pipe. 3, 3" Elbows.
5 3" Tees. 1, 3" Stop Cock.
3 Pr. 3" Flanges. 50 Ft. 8" Air Pipe.
3 8" Elbows. 1, 10" Plug.

502 Ft. 2" Water Pipe. 29, Ft. 7" Pipe.
2 7" Elbows. 2, Pr. 7" Flanges.
1 7x7x7 Tee. 1, 3" Brass Angle Valve.
1 3" Oil Separator. 5, 5" Jenkins Valves.
1 Vacuum Regulator. 2, 2" Elbows.
2 2" Tees. 1, Pr. 1 1/4" Union.
1 Pr. 1 1/4" Flanges.
17 Ft. 1 1/2" Pipe. 3, 1 1/2" Elbows.
4 1 1/2" Glove Valves.
1 1 1/2" Angle Valve. 1, 1 1/2" Tee.
1 1 1/2" Flanges. 57 Ft. 1 1/4" Pipe.
1 1 1/4" Elbow. 47 Ft. 4" Pipe.
1 4" Tee. 1, 4" Globe Valve.
3 4" Elbows. 1 Pr. 4" Flanges.
27 Ft. 5" Pipe. 1 Pr. 5" Flanges.

1 5" Elbow. 25 Ft. 6" Pipe.
3 Prs. 6" Flanges. 1, 6" Tee.
2 6" Elbow. 4, 6" Globe Valve.
1 7" Tee. 1, 7" Plug.
1 Cast Iron Radiator 126 ft.
1 6" Steam Gauge.

Forward, $12000.00
NO. 1 ENGINE HOUSE - Cont. -

Bro't For'd 12,000.00

1 8" Gong, 1, 6" Gong.
1 1 1/4" Gate Valve. 45 Ft. 1/2" Pipe.
150 Ft. 1" Pipe.

Total for all Piping, 400.00
1 Pinion Wheel, extra for No.1 Engine 150.00

TOOLS, OIL CANS, ETC. IN USE AT NO. 1

1 Set Dies 2" to 2 1/2", with stocks
1 Set Dies 2" to 1 1/2", with stocks
1 Set Dies 3 1/2" to 4"
1 Set Dies 2 1/2" to 3"
1 Set Dies 1 1/4" to 3/8"
1 Set Dies 1" to 1 1/4" with stocks.
1 2 1/2" Gas Pipe Tap.
2 2" Gas Pipe Taps
1 1 1/2" Gas Pipe Tap
1 1" Gas Pipe Tap
1 3/4" Gas Pipe Tap. 1, 3/8" Gas Pipe Tap.
1 1/4" Gas Pipe Tap. 1, 1/8" Bolt Tap.
1 Set Dies 7/8 to 1/4"
1 3 Ft. Trimo Wrench (A36)
1 18" Trimo Wrench (318)
2 15" Trimo Wrenches. 1 Monkey Wrench 15"
1 12" Monkey Wrench. 2 Machinists Hammers.
11 Lbs. Hand Chisels. 15# Steel Bars.
16 Spanners (No.1 Engine)

Forward, $12,550.00
No. 1 ENGINE HOUSE - Cont.-

6 Spanners (Compressor)
3 Socket Wrenches (No. 1 Engine)
1 Socket Wrench (Compressor)
1 4" Pipe Cutter. 1, 2" Pipe Cutter.
2 Pr. Chain Tongs. 1, 1" Pipe Cutter.
2 3 Gal. Oil Cans (No. 1 Engine)
1 1 " " Can " "
1 1 Qt. Long Spout Oil Can (copper)
1 Squirt Can.
3 1 Gal. Oil Cans (Compressor)
1 1 Qt. Long Spout Can (tin)
1 3 Gal. Oil Can
2 Squirt Cans.
1 5 Gal. Kerosene Can.

Total for all Tools, $75.00

Total No. 1 Engine House, $12,625.00
### NO. 2 BOILER HOUSE.

<table>
<thead>
<tr>
<th>Item</th>
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<td>Smoke Stack 68ft. x 40&quot;</td>
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<td>Smoke Stack 60ft. x 30&quot;</td>
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<td>Smoke Stack 56ft. x 30&quot;</td>
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<td>72&quot; x 20ft. Return Tubular Boiler, Lot #10 (in use)</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>72&quot; x 18ft. Return Tubular Boiler, Lot #11 (in use)</td>
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<tr>
<td>72&quot; x 18ft. Return Tubular Boiler, Lot No. 12 (in use)</td>
<td>1</td>
<td>4000.00</td>
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<tr>
<td>200 H.P. Excelsior Heater, Lot #12 (in use)</td>
<td>1</td>
<td>80.00</td>
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<tr>
<td>4&quot;x10x12&quot; Cameron Pump, Shop #9237, Lot #25 (in use)</td>
<td>1</td>
<td>150.00</td>
</tr>
<tr>
<td>10&quot;x6&quot;x12&quot; #6 Norwalk Pump, Lot #16 (in use)</td>
<td>1</td>
<td>195.00</td>
</tr>
<tr>
<td>Wooden Tank, 7ft. x 6ft.</td>
<td>1</td>
<td>25.00</td>
</tr>
</tbody>
</table>

**Blow-off pipe:**
- 12 ft. 63 ft. 2 1/2" Pipe.
- 3- 2 1/2" Flanges.
- 3- 2" Gate Valves.
- 1- 3" Asbestos Stop Cock.
- 1 2 1/2" Iron Stop Cock.
- 1- 2 1/2" Asbestos Stop Cock.

**Steam Pipe Fittings, etc.:**
- 12 ft. 12 ft. 5" Pipe (covered).
- 1- 3" Elbows.
- 1- 3 1/2" Flanges.
- 14 ft. 3" Pipe.
- 1- 1 1/2" Elbow.
- 2- 1 1/2" Flanges.
- 25 ft. 1 1/2" Pipe.
- 2- 1 1/2" Elbows.
- 1- 1 1/2" Gate Valve.
- 60 ft. 60 ft. 2 1/2" Pipe.
- 1- 2 1/2" to 2" Reducer.
- 89 ft. 89 ft. 1" Pipe.
- 6- 1" Valves.
- 2- 2" Globe Valves.
- 7- 2" Tees.
- 1- 1" Union.
- 1- 1 1/4" Globe Valve.
- 5- 3/4" Globe Valves.
- 2- 1" Elbow.
- 3- 1 1/2" Tees.
- 2- 1 1/2" to 1" Reducer.
- 5- 3/4" Flanges.
- 6- 2" Gate Valves.
- 1-2" Elbow.
- 6- 1 1/2" Globe Valves.
- 2- 3" Gate Valves.

Forward... $4450.00
No. 2 BOILER HOUSE.— Cont.

Bro’t For’d 4450.00

2- 1 1/4” Stop Cock. 2- 1” Gate Valve.
6. Pr. 1” Flanges. 1- 2 1/2” Lubricator.
3- #5 Reliance Water Columns, high and low water.
2- 6” Gate Valves. 2- 4” Jenkins Valves.
1- 5” Jenkins Valve. 1- Detroit Lubricator.
4- 4” Pop Safety Valves. 3- 2” Angle Valves.
3- 2 1/2 " Globe Valves. 40 ft. Steam Pipe (covered) 6”
3- 6” Elbows. 3- Pr. 6” Flanges.
3- 6” Tees. 1- 6” to 4” Bushing.
1- 6” to 5” Bushing. 1- Pr. 5” Flanges.
2- Pr. 4” Flanges. 1- 5” Tee.
1- 4” Iron Check Valve. 18 ft. 4” Pipe.
2- 4” Elbows. 1- 4” Tee.
3- 2” Check Valves. 100 ft. 2” Hose.
2- Coal Shovels. 1 - Scraper.
2- Pokers. 2 - Picks.
1- #40 Hancock Inspirator.

Total all Piping, 400.00

Total No. 2 BOILER PLANT, $ 4850.00
MISCELLANEOUS MACHINERY

HOISTS.

1- 10 x 12 Merritt Hoist (No. 3 Incline) 600.00
1- 8 x 12 Ledgerwood " (No. 2 shaft) 600.00
1- Upright Puffer- 10 x 12 (No. 1 Boiler H.) 100.00

Total, 1,300.00

AIR RECEIVERS.

1- 24 x 4 ft. 4", 2- 18" Flues 200.00
1- 13 x 3 ft. 3", 2- 18" " 100.00

Total, 300.00

- PUMPS -

1- Duplex Worthington (No. 2 shaft) 4,000.00
1- Worthington Condensor " " 2,000.00
1- Compound Duplex Prescott " 250.00
1- Prescott Jet Condensor " 250.00
1- Cameron NO.10 NO. 2 (Top Sump) 300.00
1- Cameron NO.10 " " 300.00
1- Cameron NO.5 (Bottom 3 Incline) 150.00
1- Cameron NO.9 (No. 3 Incline) 250.00
1- Cameron NO.9 (covered in sand) 250.00
1- Cameron NO.10 (Idle 5 Winze) 300.00
1- Cameron NO. 9 (Open pit) 250.00
1- Cameron NO. 9 (Idle Top Level) 250.00

Total, 8,300.00

POWER DRILLS.

6- NO. 3 Rand 50.00 300.00
2- NO. 2 " 50.00 100.00
1- U. E. #2 Sullivan (scrap) 00.00

Total, 400.00
**CARS, SKIPS & BUCKETS.**

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
<th>Price</th>
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<tbody>
<tr>
<td><strong>TRAM CARS.</strong></td>
<td></td>
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<tr>
<td>30- 3 ton Iron Tram Cars- underground</td>
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<td>2250.00</td>
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<tr>
<td>5- 1 1/2 T. &quot; &quot; &quot;</td>
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<td>150.00</td>
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<tr>
<td>3- 1 1/2 &quot; &quot; &quot;</td>
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<td>75.00</td>
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<tr>
<td>2- &quot; Iron Tram Cars- surface</td>
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<td>150.00</td>
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<tr>
<td>2- &quot; Wood &quot; &quot;</td>
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<td>80.00</td>
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<td><strong>Total Tram Cars,</strong></td>
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<tr>
<td><strong>SKIPS &amp; CAGES.</strong></td>
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<tr>
<td>1- 4 Ton Iron Skip- NO. 2 Shaft</td>
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<tr>
<td>1- 4 &quot; &quot; &quot; - Idle</td>
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<tr>
<td>1- Cage- NO. 1 Shaft</td>
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<td>1- &quot; &quot; 2 &quot;</td>
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<tr>
<td>4- 1 1/2 Ton Skips</td>
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<td><strong>BUCKETS.</strong></td>
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<tr>
<td>2- Iron Buckets- idle</td>
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<tr>
<td><strong>Total cars, skips &amp; buckets,</strong></td>
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<td>3490.00</td>
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## PIPE AND FITTINGS IDLE BETWEEN NO. 1 BOILER HOUSE AND NO. 1 ENGINE HOUSE.

<table>
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<tr>
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<tbody>
<tr>
<td>Pt. 7&quot; Pipe</td>
<td>1</td>
<td>322.00</td>
</tr>
<tr>
<td>2 1/2&quot; Pipe</td>
<td>14</td>
<td>2.70</td>
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<td>2&quot; Pipe</td>
<td>81</td>
<td>10.10</td>
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<tr>
<td>3&quot; Pipe</td>
<td>121</td>
<td>31.98</td>
</tr>
<tr>
<td>1 1/2&quot; Pipe</td>
<td>16</td>
<td>1.54</td>
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<tr>
<td>1 1/4&quot; Pipe</td>
<td>36</td>
<td>2.86</td>
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<tr>
<td>3/4&quot; Pipe</td>
<td>93</td>
<td>4.64</td>
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<tr>
<td>1 1/2&quot; Pipe</td>
<td>19</td>
<td>1.76</td>
</tr>
<tr>
<td>1 1/4&quot; Pipe</td>
<td>8</td>
<td>0.16</td>
</tr>
<tr>
<td>5&quot; Pipe</td>
<td>4 3/4</td>
<td>2.74</td>
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<tr>
<td>4&quot; Pipe</td>
<td>21</td>
<td>7.94</td>
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<tr>
<td>6&quot; Pipe</td>
<td>23</td>
<td>18.74</td>
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<tr>
<td>8&quot; Pipe</td>
<td>4 3/4</td>
<td>5.46</td>
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<tr>
<td>1&quot; Pipe</td>
<td>27</td>
<td>1.32</td>
</tr>
<tr>
<td>3/8&quot; Pipe</td>
<td>16</td>
<td>0.48</td>
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</table>

**Total Fittings:** 168.39

Less 75% **Total:**

Less deduction

---

Annual Report_Mining_MS86100_2076_1903_4 of 4_343.tif
PIPE.— IDLE ON HILL AT NO.1.

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
<th>Description</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>45 ft. 10&quot; Pipe.</td>
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<td>144 ft. 3&quot; Pipe.</td>
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<tr>
<td>30 ft. 4&quot; Pipe.</td>
<td></td>
<td>23 ft. 1&quot; Pipe.</td>
<td></td>
</tr>
<tr>
<td>26 2&quot; Pipe</td>
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<td>5 1/2 ft. 3/4&quot; Pipe.</td>
<td></td>
</tr>
<tr>
<td>8 1/2 ft. 1 1/4&quot; Pipe.</td>
<td></td>
<td>109 3/4 ft. 6&quot; Pipe.</td>
<td></td>
</tr>
<tr>
<td>1 5 x 5 x 3 Tee</td>
<td></td>
<td>1 5&quot; Nipple.</td>
<td></td>
</tr>
<tr>
<td>1 5&quot; Coupling.</td>
<td></td>
<td>1 Pr. 3&quot; Flanges.</td>
<td></td>
</tr>
<tr>
<td>1 3 to 1 1/2&quot; Reducer.</td>
<td></td>
<td>1 3&quot; Tee.</td>
<td></td>
</tr>
<tr>
<td>1 3&quot; to 1&quot; Bushing.</td>
<td></td>
<td>1 Pr. 10&quot; Flanges (16 holed)</td>
<td></td>
</tr>
<tr>
<td>1 Pr. 10&quot; Flanges (6 holed)</td>
<td></td>
<td>1 10&quot; Plug.</td>
<td></td>
</tr>
<tr>
<td>1 8&quot; Elbow</td>
<td></td>
<td>1 10 x 10 x 8 Tee</td>
<td></td>
</tr>
<tr>
<td>1 1 1/2&quot; Nipple.</td>
<td></td>
<td>1 Pr. 4&quot; Flanges.</td>
<td></td>
</tr>
<tr>
<td>1 1 1/4&quot; Elbow.</td>
<td></td>
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</table>

Total for lot of pipe, 250.00

STEAM LINE TO WINZE PUMP

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
<th>Unit Price</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>701 3&quot; Pipe</td>
<td></td>
<td>Net.2643</td>
<td>185.27</td>
</tr>
<tr>
<td>99 ft. 9&quot; 4&quot; Pipe</td>
<td></td>
<td>&quot; .3780</td>
<td>37.80</td>
</tr>
<tr>
<td>1 qt. Lubricator (with pump)</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>18 Pr. 3&quot; Flanges</td>
<td></td>
<td>L. 1.50</td>
<td>27.00</td>
</tr>
<tr>
<td>1 Pr. 4&quot; Flanges</td>
<td></td>
<td>2.10</td>
<td>2.10</td>
</tr>
<tr>
<td>2 4&quot; Tees</td>
<td></td>
<td>1.75</td>
<td>3.50</td>
</tr>
<tr>
<td>5 3&quot; Tees</td>
<td></td>
<td>1.10</td>
<td>5.50</td>
</tr>
<tr>
<td>1 3&quot; to 1&quot; Bushing</td>
<td></td>
<td>.30</td>
<td>.30</td>
</tr>
<tr>
<td>3 3&quot; to 2&quot; Bushings</td>
<td></td>
<td>.30</td>
<td>.90</td>
</tr>
<tr>
<td>2 2&quot; Tees</td>
<td></td>
<td>.41</td>
<td>.82</td>
</tr>
<tr>
<td>3 2&quot; Jenkins Valves</td>
<td></td>
<td>22.00</td>
<td>66.00</td>
</tr>
<tr>
<td>1 2&quot; to 1&quot; Bushing</td>
<td></td>
<td>.14</td>
<td>.14</td>
</tr>
<tr>
<td>1 1&quot; to 3/4&quot; &quot;</td>
<td></td>
<td>.06</td>
<td>.06</td>
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</table>

Totals Forward, 106.32 $ 223.07
### STEAM LINE TO WINZE PUMP - Cont.

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Quantity</th>
<th>Unit Price</th>
<th>Total Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>3&quot; Elbows</td>
<td>18</td>
<td>.75</td>
<td>13.50</td>
</tr>
<tr>
<td>3&quot; Jenkins Valve</td>
<td>1</td>
<td>22.00</td>
<td>22.00</td>
</tr>
<tr>
<td>3&quot; to 1 1/4&quot; Bushing</td>
<td>1</td>
<td>.30</td>
<td>.30</td>
</tr>
<tr>
<td>1 1/4&quot; Plug</td>
<td>1</td>
<td>.05</td>
<td>.05</td>
</tr>
<tr>
<td>4&quot; to 3&quot; Bushings</td>
<td>2</td>
<td>.50</td>
<td>1.00</td>
</tr>
<tr>
<td>4&quot; to 2&quot; Bushing</td>
<td>1</td>
<td>.50</td>
<td>.50</td>
</tr>
<tr>
<td>2&quot; to 1 1/2&quot;</td>
<td>2</td>
<td>.14</td>
<td>.28</td>
</tr>
<tr>
<td>1 1/2&quot; Jenkins Valves</td>
<td>2</td>
<td>5.50</td>
<td>11.00</td>
</tr>
<tr>
<td>3&quot; to 1&quot; Bushing</td>
<td>1</td>
<td>.30</td>
<td>.30</td>
</tr>
<tr>
<td>3&quot; to 1 1/2&quot;</td>
<td>1</td>
<td>.30</td>
<td>.30</td>
</tr>
<tr>
<td>1 1 1/2&quot; Stop Cock (iron)</td>
<td>1</td>
<td>1.85</td>
<td>1.85</td>
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<tr>
<td>1 1 1/2&quot; Elbow</td>
<td>1</td>
<td>.20</td>
<td>.20</td>
</tr>
<tr>
<td>1&quot; Jenkins Valve</td>
<td>1</td>
<td>2.80</td>
<td>2.80</td>
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<tr>
<td>9 ft. 10&quot; Pipe</td>
<td></td>
<td></td>
<td>15.20</td>
</tr>
<tr>
<td>10&quot; Elbow</td>
<td>1</td>
<td>13.50</td>
<td>13.50</td>
</tr>
<tr>
<td>Pr. 10&quot; Flanges</td>
<td>1</td>
<td>11.50</td>
<td>11.50</td>
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<tr>
<td>Winebore Flange 10&quot;</td>
<td>1</td>
<td>0.00</td>
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**Less 75%**

185.50

**Total Steam Line To Winze Pump:**

238.27

**Less 75%**

46.37

**Total,**

$284.64

---

### TOOLS AT BOTTOM OF WINZE.

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Quantity</th>
<th>Unit Price</th>
<th>Total Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 Packing Hooks; 3 Socket Wrenches (with pump)</td>
<td>2</td>
<td>.75</td>
<td>1.50</td>
</tr>
<tr>
<td>1 Monkey Wrench</td>
<td>1</td>
<td></td>
<td>.75</td>
</tr>
<tr>
<td>4 Spanners (with pump)</td>
<td>4</td>
<td></td>
<td>.30</td>
</tr>
<tr>
<td>1 Pr. Chain Tongs</td>
<td>1</td>
<td>2.00</td>
<td>2.00</td>
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<tr>
<td>4 Lbs. Springs 30 ft. pr.</td>
<td>4</td>
<td>1.20</td>
<td>4.80</td>
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<tr>
<td>Cold Chisel 1 1/2&quot;</td>
<td>1</td>
<td>.06 pr.</td>
<td>.06</td>
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<tr>
<td>Squirt Can</td>
<td>1</td>
<td>.25</td>
<td>.25</td>
</tr>
<tr>
<td>25 Lbs. Steel Bars</td>
<td>25</td>
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<td>1.50</td>
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<tr>
<td>1 Cameron Pump 20x9x10, Shop #12906</td>
<td>1</td>
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<td>0.00</td>
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**Total,**

$284.64
WATER LINE FROM NO. 1 BOILER HOUSE
TO NO. 2 BOILER HOUSE.

<table>
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<th>Item</th>
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<tbody>
<tr>
<td>5&quot; Pipe</td>
<td>1452</td>
<td>.2643</td>
<td>383.76</td>
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<tr>
<td>3&quot; Elbow</td>
<td>10</td>
<td>.75</td>
<td>7.50</td>
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Total: $385.63

STEAM LINE FROM NO. 1 BOILER HOUSE
TO NO. 1 SHAFT.

<table>
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<tr>
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<tr>
<td>4&quot; Pipe</td>
<td>592</td>
<td>.3780</td>
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<td>Expansion Joint</td>
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<td>Elbows</td>
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<td>Flanges</td>
<td>8</td>
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<td>16.80</td>
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<tr>
<td>Tee</td>
<td>1</td>
<td>1.10</td>
<td>1.10</td>
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Less 75%: 60.70

Total: $238.94

AIR LINE FROM NO. 1 BOILER HOUSE
TO AIR RECEIVER.

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<tbody>
<tr>
<td>5&quot; Pipe</td>
<td>415</td>
<td>.5775</td>
<td>239.66</td>
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<tr>
<td>Elbows</td>
<td>4</td>
<td>2.00</td>
<td>8.00</td>
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<tr>
<td>Tée</td>
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<tr>
<td>Flanges</td>
<td>7</td>
<td>3.15</td>
<td>22.05</td>
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Less 75%: 33.05

Total: $247.92
### AIR RECEIVER ON SURFACE.

- Size 24 ft. x 4 ft. 6"
- 2 Flues 18" diam.
- 1 4" Common Safety Valve
- 1 1 1/4" Pop Safety Valve

### AIR LINE FROM RECEIVER TO NO. 1 SHAFT.

<table>
<thead>
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<tbody>
<tr>
<td>230 Ft. 4&quot; Pipe</td>
<td>2</td>
<td>37.60</td>
<td>86.94</td>
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<tr>
<td>4&quot; Gate Valves</td>
<td>2</td>
<td>20.00</td>
<td>40.00</td>
</tr>
<tr>
<td>4&quot; Elbows</td>
<td>5</td>
<td>1.20</td>
<td>6.00</td>
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<tr>
<td>Pr. 4&quot; Flanges</td>
<td>2</td>
<td>2.10</td>
<td>4.20</td>
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<tr>
<td><strong>Less 75%</strong></td>
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<tr>
<td><strong>Total</strong></td>
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### AIR LINE ON SURFACE BY #2 BOILER HOUSE.

<table>
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<tr>
<td>211 1/4 Ft. 6&quot; Pipe</td>
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<td>.6580</td>
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</tr>
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<td>6&quot; Elbow</td>
<td>1</td>
<td>2.75</td>
<td>2.75</td>
</tr>
<tr>
<td>358 2/3 Ft. 8&quot; Pipe</td>
<td>4</td>
<td>1.15</td>
<td>4.60</td>
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<tr>
<td>10&quot; Pipe</td>
<td>1</td>
<td>1.70</td>
<td>1.70</td>
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<tr>
<td>8&quot; Elbows</td>
<td>6</td>
<td>6.75</td>
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</tr>
<tr>
<td>Ft. 8&quot; Pipe(Winebore) N</td>
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<td>1.15</td>
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<tr>
<td>6&quot; Tee</td>
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<td>1.25</td>
<td>1.25</td>
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<tr>
<td>6&quot; to 5&quot; Bushing L</td>
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<td>.88</td>
<td>.88</td>
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<tr>
<td>5&quot; Plug</td>
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<td>.94</td>
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<td>18 3/4 Ft. 5&quot; Pipe</td>
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<td>&quot; 7&quot; Pipe</td>
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<td>.94</td>
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<tr>
<td><strong>Less 75%</strong></td>
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<td></td>
<td>7.28</td>
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<tr>
<td><strong>Less Amt. deducted</strong></td>
<td></td>
<td></td>
<td>637.38</td>
</tr>
<tr>
<td><strong>Net Total</strong></td>
<td></td>
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### Total Costs:

- 2 Sq. Water Bailer Net 228.00
- 4 20" Eye Beams, 6" Flanges, 12 ft. long each, Net 86.65

**Total: $615.19**
## HEATING PLANT

**Line from No. 1 Engine House to Office.**

<table>
<thead>
<tr>
<th>175</th>
<th>Ft. 4&quot; Pipe</th>
<th>3780</th>
<th>66.15</th>
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<tbody>
<tr>
<td>175</td>
<td>2 1/2&quot; Pipe</td>
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**Warehouse Heater—**

<table>
<thead>
<tr>
<th>102</th>
<th>1 1/4&quot; Gas Pipe</th>
<th>Net(7.88)8.04</th>
<th>8.04</th>
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<tbody>
<tr>
<td>16</td>
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<td>6</td>
<td>1 1/4&quot; Elbow</td>
<td>.16</td>
<td>.96</td>
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<tr>
<td>6</td>
<td>1 1/4&quot; Manifolds, 6 openings</td>
<td>2.80</td>
<td>16.80</td>
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<tr>
<td>1</td>
<td>1 1/4&quot; Thermostic Air Valve</td>
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<td>3.00</td>
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**Office Heater—**

<table>
<thead>
<tr>
<th>88</th>
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<th>net 7.88</th>
<th>6.93</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1 1/4&quot; Gate Valve</td>
<td>3.25</td>
<td>3.25</td>
</tr>
<tr>
<td>2</td>
<td>1 1/4&quot; Manifolds, 6 openings</td>
<td>2.80</td>
<td>5.60</td>
</tr>
<tr>
<td>7</td>
<td>1 1/4&quot; Elbows</td>
<td>.16</td>
<td>1.12</td>
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<tr>
<td>1</td>
<td>1/2&quot; Thermostic Air Valve</td>
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**Heater in Captain's Change Room—**

<table>
<thead>
<tr>
<th>84</th>
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<th>net 7.88</th>
<th>6.62</th>
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</thead>
<tbody>
<tr>
<td>7</td>
<td>1 1/4&quot; Elbows</td>
<td>.16</td>
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</tr>
<tr>
<td>2</td>
<td>1 1/4&quot; Manifolds, 6 openings</td>
<td>2.80</td>
<td>5.60</td>
</tr>
<tr>
<td>1</td>
<td>1 1/4&quot; Angle Valve</td>
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<td>2.52</td>
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<tr>
<td>1</td>
<td>1 1/4&quot; Union</td>
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<td>.46</td>
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<tr>
<td>1</td>
<td>1/2&quot; Thermostic Air Valve</td>
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**Line from No. 1 Engine House to Dry.—**

<table>
<thead>
<tr>
<th>375</th>
<th>Ft. 3&quot; Pipe Net</th>
<th>.2643</th>
<th>99.11</th>
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<tbody>
<tr>
<td>375</td>
<td>&quot; 2&quot; &quot; &quot; &quot;</td>
<td>.1260</td>
<td>47.25</td>
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<tr>
<td>375</td>
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<td>.0578</td>
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<td>2</td>
<td>3&quot; Mallesable Elbows</td>
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<td>3.00</td>
</tr>
<tr>
<td>1</td>
<td>4-5&quot; Bushing</td>
<td>.93</td>
<td>.93</td>
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<tr>
<td>2</td>
<td>4&quot; Elbows</td>
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</tr>
<tr>
<td>4</td>
<td>2 1/2&quot; Elbows</td>
<td>1/6</td>
<td>.50</td>
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**Totals forward,** 51.26 $ 291.37
HEATING PLANT—Cont.

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<tr>
<td><strong>Tees</strong></td>
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<td>2 1/2&quot; Tee</td>
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<td>.73</td>
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<tr>
<td></td>
<td>1</td>
<td>2 1/2&quot; to 2&quot; Bushing</td>
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<td>.21</td>
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<tr>
<td><strong>Elbows</strong></td>
<td>3</td>
<td>1&quot; Elbows</td>
<td>.10 1/2</td>
<td>.32</td>
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<tr>
<td></td>
<td>1</td>
<td>1&quot; Globe Valve</td>
<td>1.80</td>
<td>1.80</td>
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<tr>
<td></td>
<td>1</td>
<td>1&quot; Union</td>
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<td>.33</td>
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<tr>
<td><strong>Heater in Dry</strong></td>
<td>314</td>
<td>Ft. 10 &quot; Tubing</td>
<td>Net</td>
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<tr>
<td></td>
<td>12</td>
<td>&quot; 3&quot; Pipe</td>
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<td>.2643</td>
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<td></td>
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<td></td>
<td>25</td>
<td>&quot; 3/4&quot; Pipe</td>
<td></td>
<td>.0320</td>
</tr>
<tr>
<td><strong>Elbow</strong></td>
<td>3</td>
<td>2&quot; Elbow</td>
<td></td>
<td>.28</td>
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<tr>
<td></td>
<td>3</td>
<td>2&quot; Unions</td>
<td></td>
<td>.75</td>
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<tr>
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<td>5</td>
<td>3/4&quot; Globe Valves</td>
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<td></td>
<td>2</td>
<td>1&quot; Globe Valves</td>
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<td>1.80</td>
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<td></td>
<td>3</td>
<td>2&quot; Tees</td>
<td></td>
<td>.41</td>
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<td></td>
<td>1</td>
<td>3&quot; Elbow</td>
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<td>.75</td>
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<tr>
<td></td>
<td>1</td>
<td>1&quot; Elbow</td>
<td></td>
<td>.10 1/2</td>
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<tr>
<td><strong>Line continued from office to blacksmith shop</strong></td>
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<td></td>
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<tr>
<td></td>
<td>92</td>
<td>Ft. 1 1/4&quot; Pipe</td>
<td>Net</td>
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<tr>
<td></td>
<td>92</td>
<td>&quot; 3/4&quot;</td>
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<td>.0520</td>
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<td></td>
<td>2</td>
<td>1 1/4&quot; Elbows</td>
<td></td>
<td>.16</td>
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<tr>
<td></td>
<td>2</td>
<td>3/4&quot; Elbows</td>
<td></td>
<td>.08</td>
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<tr>
<td><strong>Heater in shop</strong></td>
<td>318</td>
<td>Ft. 1 1/4&quot; Pipe</td>
<td>Net</td>
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<tr>
<td></td>
<td>1</td>
<td>1/2&quot; Globe Valve</td>
<td></td>
<td>1.00</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>1 1/4&quot; Manifolds, 6 openings</td>
<td></td>
<td>2.80</td>
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<tr>
<td></td>
<td>12</td>
<td>1 1/4&quot; Elbows</td>
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<td>.16</td>
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Less 75%

Total, 78.73

Less Amt. to make their figures, 885.80

Net Amt. Heating Plant, 885.90
<table>
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<tr>
<th>Item Description</th>
<th>Quantity</th>
<th>Unit</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1&quot; Iron Stop Cock</td>
<td>1</td>
<td></td>
<td>1.30</td>
<td>1.30</td>
</tr>
<tr>
<td>1 1/2&quot; Iron Stop Cock</td>
<td>1</td>
<td></td>
<td>1.85</td>
<td>1.85</td>
</tr>
<tr>
<td>1 1/2&quot; Tees</td>
<td>2</td>
<td></td>
<td>.29</td>
<td>.58</td>
</tr>
<tr>
<td>1 1/2&quot; to 1&quot; Reducer</td>
<td>1</td>
<td></td>
<td>.28</td>
<td>.28</td>
</tr>
<tr>
<td>1 1&quot; Union</td>
<td>1</td>
<td></td>
<td>.33</td>
<td>.33</td>
</tr>
<tr>
<td>1 1&quot; Elbow</td>
<td>1</td>
<td></td>
<td>.10</td>
<td>.11</td>
</tr>
<tr>
<td>2 1 1/2&quot; Elbows</td>
<td>2</td>
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<td>.50</td>
<td>1.00</td>
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<tr>
<td>116 ft. 1 1/2&quot; Pipe</td>
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<td>.0963</td>
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<td>2 1 1/4&quot; Unions</td>
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<td>.46</td>
<td>.92</td>
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<tr>
<td>365 ft. 1 1/4&quot; Pipe</td>
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<td>.0788</td>
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Less 75% | 77.04 | 19.26 |

Total Pump in open pit, $159.26
STEAM LINE FROM NO. 2 BOILER HOUSE
TO SHAFT.

<table>
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<tr>
<th>Item</th>
<th>Quantity</th>
<th>Description</th>
<th>Rate</th>
<th>Total</th>
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<tbody>
<tr>
<td>197</td>
<td></td>
<td>Ft. 5&quot; Pipe (covered)</td>
<td>.5775</td>
<td>113.77</td>
</tr>
<tr>
<td>197</td>
<td></td>
<td>&quot; 4&quot; &quot;</td>
<td>.3780</td>
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<td>3</td>
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<td>5&quot; Elbows</td>
<td>2.00</td>
<td>6.00</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>4&quot; Elbows</td>
<td>1.20</td>
<td>2.40</td>
</tr>
<tr>
<td>6</td>
<td></td>
<td>Pr. 5&quot; Flanges</td>
<td>3.00</td>
<td>18.00</td>
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<tr>
<td>6</td>
<td></td>
<td>Pr. 4&quot; Flanges</td>
<td>2.10</td>
<td>12.60</td>
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</table>

Less 75%

Total, $197.99

WATER PIPE FROM NO. 2 SHAFT TO
NO. 2 BOILER HOUSE.

<table>
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<tr>
<th>Item</th>
<th>Quantity</th>
<th>Description</th>
<th>Rate</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>183</td>
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<td>Ft. 3&quot; Pipe</td>
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<tr>
<td>3</td>
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<td>3&quot; Elbows</td>
<td>.75</td>
<td>2.25</td>
</tr>
<tr>
<td>1</td>
<td></td>
<td>3&quot; Butterfly Valve</td>
<td>12.00</td>
<td>12.00</td>
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</table>

Less 75%

Total, $51.93

IDLE ON SURFACE BY NO. 1 SHAFT.

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Description</th>
<th>Rate</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Water Boiler - square</td>
<td></td>
<td></td>
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</table>

IDLE ON SURFACE BY NO. 2 SHAFT.

<table>
<thead>
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<th>Item</th>
<th>Quantity</th>
<th>Description</th>
<th>Rate</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>39</td>
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<td>Ft. 5&quot; Pipe</td>
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<tr>
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<td></td>
<td>6&quot; to 5&quot; Bushing</td>
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<td>2.50</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>5&quot; Elbows</td>
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<td>4.00</td>
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Less 75%

Total, $24.15
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<th>Total Cost</th>
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<td>4&quot; Gate Valve</td>
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<td>20.00</td>
</tr>
<tr>
<td>Pr. 4&quot; Flanges</td>
<td>1</td>
<td>2.10</td>
<td>2.10</td>
</tr>
<tr>
<td>4&quot; to 3&quot; Bushings</td>
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<td>.50</td>
<td>1.00</td>
</tr>
<tr>
<td>3&quot; Tee</td>
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<td>1.10</td>
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<tr>
<td>3&quot; Elbows</td>
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</tr>
<tr>
<td>3&quot; to 1 1/2&quot; Bushing</td>
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<td>.30</td>
<td>.30</td>
</tr>
<tr>
<td>1 1/2&quot; Globe Valve</td>
<td>3</td>
<td>3.50</td>
<td>10.50</td>
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<tr>
<td>Pr. 3&quot; Flanges</td>
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<td>1.50</td>
<td>4.50</td>
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<tr>
<td>4&quot; 45 deg. Elbow</td>
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<td>1.45</td>
<td>1.45</td>
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<tr>
<td>1 1/2&quot; Union</td>
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<td>.58</td>
<td>.58</td>
</tr>
<tr>
<td>1 1/2&quot; Tee</td>
<td>1</td>
<td>.29</td>
<td>.29</td>
</tr>
<tr>
<td>2 1/2&quot; to 2&quot; Bushing</td>
<td>1</td>
<td>.21</td>
<td>.21</td>
</tr>
<tr>
<td>1 1/2&quot; Elbow</td>
<td>3</td>
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<td>.60</td>
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<td>1.00</td>
<td>1.00</td>
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<tr>
<td>1 1/2&quot; Elbows</td>
<td>5</td>
<td>.20</td>
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Less 75%: 49.69
Total: 30.22
### 8" DISCHARGE THROUGH LEVEL (bottom)

<table>
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<tr>
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<th>Unit</th>
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<td></td>
<td></td>
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<td>Pr. 8&quot; Flanges</td>
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<td>1</td>
<td>7.00</td>
<td>7.00</td>
</tr>
<tr>
<td>1 8&quot; Plug</td>
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<td>1</td>
<td>2.75</td>
<td>2.75</td>
</tr>
<tr>
<td>1 1 1/2&quot; Swing Check Valve</td>
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<td>1</td>
<td>5.50</td>
<td>5.50</td>
</tr>
<tr>
<td>1 1 1/2&quot; Plug</td>
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<td>0.07</td>
<td>0.07</td>
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<tr>
<td>3 8&quot; Tees</td>
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<td>3</td>
<td>9.75</td>
<td>29.25</td>
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<tr>
<td>1 8&quot; Plug</td>
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<td>1</td>
<td>2.75</td>
<td>2.75</td>
</tr>
<tr>
<td>1 &quot;8&quot; to 6&quot; Bushing</td>
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<td>1</td>
<td>2.75</td>
<td>2.75</td>
</tr>
<tr>
<td>1 6&quot; to 3&quot; Bushing</td>
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<td>1.25</td>
<td>1.25</td>
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<tr>
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<td>6.75</td>
<td>27.00</td>
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<td>17.00</td>
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<tr>
<td>1 10&quot; Elbow</td>
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<td>1</td>
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<td>13.50</td>
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<tr>
<td>4 Pr. 10&quot; Flanges</td>
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<tr>
<td>1 10 x 7 x 7 Tee</td>
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<tr>
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Less 75% 274.82 407.17

Total 475.87

### STEAM LINE TO POWDER HOUSE

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<th>Item</th>
<th>Unit</th>
<th>Quantity</th>
<th>Price (pr ft)</th>
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<td>40'8&quot; .1&quot; Pipe</td>
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<td>1 3&quot; to 1&quot; Bushing</td>
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<tr>
<td>1 1&quot; Globe Valve</td>
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<td>1.80</td>
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<tr>
<td>1 1&quot; Union</td>
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<td>1</td>
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<tr>
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<td>1</td>
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<td>0.11</td>
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<tr>
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<td></td>
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<td>0.06</td>
<td>0.06</td>
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<tr>
<td>1 1/2&quot; Jenkins Valve</td>
<td></td>
<td>1</td>
<td>1.60</td>
<td>1.60</td>
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<tr>
<td>1 1/2&quot; Union</td>
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<tr>
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<td>Net.</td>
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Total 21 4.42 3.40
STEAM LINE TO POWDER HOUSE.— Cont.

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<th>Item Description</th>
<th>Quantity</th>
<th>Price 1</th>
<th>Price 2</th>
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<tbody>
<tr>
<td>1 Heater 20 ft.— 1&quot; Pipe .0578 Net</td>
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<td></td>
<td></td>
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<td>2 1&quot; to 2/4&quot; Bushing</td>
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<tr>
<td>1 3/4&quot; to 1/2&quot; Bushing</td>
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<td>.05</td>
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<td>1 1&quot; Tee</td>
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<tr>
<td>1 1&quot; Plug</td>
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<td>.04</td>
<td>.04</td>
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<tr>
<td>1 1&quot; Union</td>
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<td>.33</td>
<td>.33</td>
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<td>8 1&quot; Elbows</td>
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<tr>
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Less 75%

<table>
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<tr>
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Total Steam Line to Powder House, $6.49

LANE HOIST

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<tr>
<td>1 Duplex Lane Hoist 8 x 12 Drum 4&quot; diam.</td>
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<tr>
<td>2 2&quot; Jenkins Valves</td>
<td></td>
<td>8.75</td>
<td>17.50</td>
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<tr>
<td>4 2&quot; Elbows</td>
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<td>.28</td>
<td>1.12</td>
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<tr>
<td>1 Steam Gauge 6&quot;</td>
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<td>1.00</td>
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<td>20 Ft. 6&quot; - 2&quot; Pipe net</td>
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<tr>
<td>1 1 1/2&quot; Angle Valve</td>
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<td>3.50</td>
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<tr>
<td>1 2&quot; Oil Cup (with hoist)</td>
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<tr>
<td>1 2&quot; Tee</td>
<td></td>
<td>.41</td>
<td>.41</td>
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<tr>
<td>1 2&quot; to 1&quot; Bushing</td>
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<td>.14</td>
<td>.14</td>
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<tr>
<td>1 1&quot; to 3/4&quot; &quot;</td>
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<tr>
<td>1 3/4&quot; to 1/2&quot; &quot;</td>
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<td>.05</td>
<td>.05</td>
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<tr>
<td>2 Pr. 2&quot; Flanges</td>
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<td>2.00</td>
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<tr>
<td>1 3&quot; to 2&quot; Bushing</td>
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Totals forward, 26.08 1.37
### LANE HOIST - Cont.

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<tr>
<td>1 3&quot; to 1&quot; Bushing</td>
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<td>.30</td>
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<tr>
<td>1 1&quot; Elbow</td>
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<td></td>
<td></td>
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<tr>
<td>1 1&quot; Globe Valve</td>
<td>1.80</td>
<td></td>
<td></td>
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<tr>
<td>1 2&quot; Check Valve (brass)</td>
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<tr>
<td>1 12&quot; Monkey Wrench</td>
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**Less 75 1/4%**

Total Lane Hoist, $9.04

### AIR LINE FROM LANE HOIST TO OLD SHAFT

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<tr>
<td>391 ft. 2&quot; Pipe</td>
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<tr>
<td>3 Pr. 2&quot; Flanges</td>
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<td>3.00</td>
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<tr>
<td>2 2&quot; Jenkins Valves</td>
<td>8.75</td>
<td>17.50</td>
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</tr>
<tr>
<td>1 2&quot; Tee</td>
<td>.41</td>
<td>.41</td>
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<tr>
<td>2 2&quot; to 1&quot; Bushing</td>
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<td>.28</td>
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<tr>
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<td>.75</td>
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<tr>
<td>1 1&quot; Globe Valve</td>
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<tr>
<td>2 3&quot; Elbows</td>
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<tr>
<td>1 Pr. 3&quot; Flanges</td>
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<tr>
<td>1 3&quot; Tee</td>
<td>1.10</td>
<td>1.10</td>
<td></td>
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<tr>
<td>1 3&quot; to 2 1/2&quot; Bushing</td>
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<td>.30</td>
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<tr>
<td>1 2 1/2&quot; to 2&quot; Bushing</td>
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**Less 75%**

Total, $56.36
### LINE TO BLACKSMITH SHOP

**UNDERGROUND.**

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<tr>
<th>43'6&quot;</th>
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<td>2</td>
<td>1&quot; Elbow</td>
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<td>.10 1/2</td>
<td>.21</td>
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<tr>
<td>1</td>
<td>1&quot; Union</td>
<td></td>
<td>.33</td>
<td>.33</td>
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<tr>
<td>2</td>
<td>1&quot; Globe Valves</td>
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Less 75%

<p>| | | | |</p>
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<tr>
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<tbody>
<tr>
<td>4.28</td>
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Total,

$\$ \ 3.58$

### MAIN STEAM LINE

*(Fittings in use).*

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<tr>
<th>3</th>
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<th>9.00</th>
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<tr>
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<td>Pr. 5&quot; Flanges</td>
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<td>5&quot; Elbows</td>
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<tr>
<td>1</td>
<td>5&quot; Gate Valve</td>
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<tr>
<td>1</td>
<td>5&quot; to 2 1/2&quot; Bushing</td>
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<td>.93</td>
<td>.93</td>
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<td>1</td>
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<td>.14</td>
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<tr>
<td>1</td>
<td>1 1/2&quot; Globe Valve</td>
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<td>2</td>
<td>1 1/2&quot; Elbows</td>
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<tr>
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<td>1 1/2&quot; to 1 1/4&quot; Bushing</td>
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<tr>
<td>4</td>
<td>1 1/4&quot; Elbows</td>
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Less 75%

<table>
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Total Main Steam Line, $\$ 12.89$
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<td>5&quot; Jenkins Valves</td>
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<td>1 Qt. Detroit Lubricator</td>
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<td>0.93</td>
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<td>.06</td>
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**Totals forward:** 84.87 $ 2.10
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<tr>
<td>3&quot; x 1/2&quot; Machine Bolts</td>
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<td>Chalking Chisle 1 1/2&quot;</td>
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<td>Hand Hammers - 50 @ ea. net</td>
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## BOTTOM LEVEL NO. 2 - Cont. -

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<td>Lbs. Sheet Lead</td>
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<td>2 Gal. Oil Can</td>
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<td>Long Spout Oil Cans (1 Qt.)</td>
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<td>24 &quot; Stillson Wrench</td>
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Less 75%  

Total Bottom Level,  

$59.34  

## LEDGERWOOD HOIST UNDERGROUND  

AT NO. 5 INCLINE SHAFT.  

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Less 75%  

Total,  

$.60
OLD FITTINGS NOT IN USE AT
BOTTOM NO. 2.

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<td>1</td>
<td>1 1/2&quot; to 1 1/4&quot; Bushing</td>
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<tr>
<td>2</td>
<td>1&quot; Stop Cocks (iron)</td>
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<td>1</td>
<td>3&quot; Jenkins Valve</td>
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<td>3/4&quot; Globe Valve</td>
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<td>2&quot; Jenkins Valve</td>
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<td>1</td>
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<td>3&quot; Plugs</td>
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<td>3</td>
<td>3&quot; Elbows</td>
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<td>2</td>
<td>4&quot; 45 degree Elbows</td>
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<td>4&quot; to 2&quot; Bushings</td>
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<tr>
<td>3</td>
<td>2&quot; Plugs</td>
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<td>2&quot; Elbows</td>
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<td>.28</td>
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<tr>
<td>1</td>
<td>3/8&quot; Union</td>
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<td>.20</td>
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<tr>
<td>1</td>
<td>1 1/4&quot; Union</td>
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<td>.45</td>
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<tr>
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<td>Fr. 1 1/2&quot; Flanges</td>
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<td>.08</td>
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<td>2</td>
<td>1&quot;</td>
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<td>.10 1/2</td>
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<td>1</td>
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<td><strong>Less Amt. to make their figures,</strong></td>
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<td><strong>Total</strong></td>
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<td>$8.00</td>
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1 1 ton bucket (iron)
1 1/2" " "

Approved on page 10
**NO. 1 CAGE LEVEL**

**Suction to Pump.**

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<thead>
<tr>
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<th>Size</th>
<th>Unit</th>
<th>Price</th>
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<tbody>
<tr>
<td>10&quot; Elbows L</td>
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<td></td>
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<td>19.50</td>
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<td>2 8&quot; 45 deg. Elbows</td>
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<td>8.50</td>
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<td>8&quot; Gate Valve</td>
<td>1</td>
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<td>8&quot; to 6&quot; Bushing</td>
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<td>8&quot; Elbows</td>
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Less 75%: 218.30 = 54.57

Total Suction to Pump: $159.80

**SUCTION TO CONDENSER.**

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<th>Size</th>
<th>Unit</th>
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<td>5&quot; Tee Cast Iron</td>
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<td>5&quot; Plug</td>
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<td>3.15</td>
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<tr>
<td>6&quot; Elbow</td>
<td>1</td>
<td></td>
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<td>2.75</td>
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Less 75%: 46.08 = 11.52

Total Suction to Condenser: 47.61
### DISCHARGE OF CONDENSER - Cont.

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<td>1 1/2&quot; Tee</td>
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<td>.29</td>
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<tr>
<td>1 1/2&quot; Union</td>
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<td>.58</td>
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<td>4 3&quot; Elbows</td>
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<td>.08</td>
<td>.32</td>
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<td>1 3/4&quot; Union</td>
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<tr>
<td>1 3/4&quot; Tee</td>
<td></td>
<td>.12</td>
<td>.12</td>
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<tr>
<td>3 3/4&quot; to 1/2&quot; Bushing</td>
<td></td>
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<td>.15</td>
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<tr>
<td>9 1/2&quot; Elbows</td>
<td></td>
<td>.06</td>
<td>.54</td>
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<td>2 1 1/4&quot; Elbows</td>
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<td>2 1 1/4&quot; Globe Valves J.</td>
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<td>4.00</td>
<td>8.00</td>
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<tr>
<td>2 1 1/4&quot; to 1&quot; Bushing</td>
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<td>.07</td>
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<td>1 1&quot; to 3/4&quot; Bushing</td>
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<td>1 3/4&quot; to 1&quot;</td>
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<td>1 1&quot; to 1/2&quot; &quot;</td>
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<td>.06</td>
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<td>5 3/4&quot; Elbows</td>
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<tr>
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<td>12 Ft. 3&quot;</td>
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Less 75%: 215.96 $  145.05 $  3.17 $  53.49 $

Total Discharge Of Condenser, $198.54
**NO. 1 CAGE LEVEL.**

**PIPE AND FITTINGS NOT IN USE -**

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<td>2&quot; Stop Cock</td>
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</tr>
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<td>1.25</td>
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<td>10&quot; to 2&quot; Bushing</td>
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<td>2&quot; Plug</td>
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Less 75%                     |

**Total**                    |         |

**MAIN STEAM PIPE NO. 2 SHAFT.**

<table>
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<th>Quantity</th>
<th>Price</th>
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<td>Pr. 5&quot; Flanges</td>
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Less 75%                     |

**Total**                    |         |

"33"
### DISCHARGE LINE

<table>
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<tr>
<td>10&quot; Special Cast Tee</td>
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<td>10&quot; x 10&quot; x 8&quot; Special Tee</td>
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<td>3 Flanges</td>
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<td>10&quot; Elbow</td>
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<td>10&quot; Pipe</td>
<td>564</td>
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Less 75%

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Total,

$ 766.85

### DISCHARGE PIPE

NO. 2 Shaft 160 ft. Level

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<td>128 1/2 ft. 6&quot; Pipe</td>
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Less Amt. to make their figs.

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Total,

$ 387.17

### IN NO. 1 SHAFT

Not in use

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Less 75%

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Total,

Less Amt. to make their figures

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Net Total,

$ 82.25
### AIR LINE NO. 1 SHAFT.

**In Use.**

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<tr>
<td>1 4&quot; Elbow</td>
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<tr>
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### STEAM LINE NO. 1 SHAFT.

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<td>3 4&quot; Tees</td>
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<td>1 4&quot; to 3&quot; Bushing</td>
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<tr>
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Annual Report_Mining_MS86100_2076_1903_4 of 4_366.tif
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<td>1&quot; Common Stop Cook</td>
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Less 75%: 66.87
Total Air Line: $195.12
### STEAM LINE.

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<td>1/2&quot; Jenkins Valve</td>
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Less 75%: 119.21  29.80  385.89

Total Steam Line: $385.89

### WATER PIPE IN OLD WINZE.

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<td>3&quot; to 2 1/2&quot; Bushing</td>
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<td>2 1/2&quot; to 2&quot; Bushing</td>
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<td>Ft. 2 1/2&quot; Pipe</td>
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Less 75%: 5.81  1.45  15.40

Total Water Pipe: $15.40
### 4" Air Line on Gage Level

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<td>4 4&quot; to 3&quot; Bushings</td>
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<td>1 3&quot; to 2 1/2&quot; Bushing</td>
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<td>1 2 1/2&quot; to 2&quot; Bushing</td>
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<td>2 4&quot; Globe Valves Jenkins</td>
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<td>5 4&quot; Elbows</td>
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<td>10 Fr. 4&quot; Flanges</td>
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**Less 75%**

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**Total Air Line,**

**$ 304.30**

### No. 5 Incline, Air Line

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**Less 75%**

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**Total $5 -**

**$ 16.36**

### 2" Line to No. 6 Drift

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<td>5 Fr. 2&quot; Flanges</td>
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**Totals Forward,**

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**$ 60.32**

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### 2" Line to No. 6 Drift — Cont.

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<td>.10</td>
<td>.20</td>
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<tr>
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<tr>
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<td>2</td>
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<td>.28</td>
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<td>1&quot; Jenkins Valves</td>
<td>2</td>
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<td>1&quot; Unions</td>
<td>2</td>
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**Less 75%**

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<tr>
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**Total 2" Line to No. 6 Drift,**

$72.76

### Pump, Pipe and Fittings at Bottom No. 3 Incline.

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<td>1 3&quot; to 1 1/2&quot; Bushing</td>
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<tr>
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<td>1 1&quot; Jenkins Globe Valve</td>
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<td>2.80</td>
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<td>1 3&quot; to 2&quot; Bushing</td>
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<td>.30</td>
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<td>1 2&quot; Plug</td>
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**Totals forward,**

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5.78
PUMP, PIPE AND FITTINGS AT
BOTTOM NO. 3 INCLINE.—cont.—

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<tr>
<td>1 2&quot; Tee</td>
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<td>1 2&quot; to 1&quot; Bushing</td>
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<td>1 1&quot; Plug</td>
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Less 75%

Total,

Less Amt. to make their figures,

Net Amt.

$16.34

TOP PUMP HOUSE.

<p>| | | |</p>
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<tr>
<td>1 4&quot; Tees</td>
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<td>2.20</td>
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Totals forward, $56.56
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<td>.50</td>
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<td>.60</td>
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<tr>
<td>3 1 1/2&quot; to 1 1/4&quot; Bushing</td>
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<td>.27</td>
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<tr>
<td>1 1 1/4&quot; to 1&quot; Bushing</td>
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<td>.07</td>
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<tr>
<td>1 6&quot; to 4&quot; Bushing</td>
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<td>1.25</td>
<td></td>
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<tr>
<td>1 6&quot; to 5&quot; Bushing</td>
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<td>1.25</td>
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<td>.14</td>
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<tr>
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<td>.10 1/2</td>
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<tr>
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<td>4 2&quot; Jenkins Valves</td>
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<td>2 1 1/2&quot; Tees</td>
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<td>.58</td>
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<tr>
<td>1 1 1/2&quot; Plug</td>
<td>.07</td>
<td>.07</td>
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Less 75%                                     | 215.79      |       | 53.44 |

Total Top Pump House,                        |             |       |       |

Total: $110.00
TOP PUMP HOUSE.

TOOLS AND PACKING.

<table>
<thead>
<tr>
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<th>Quantity</th>
<th>Unit Cost</th>
<th>Total Cost</th>
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<tbody>
<tr>
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<td>5/8&quot; Daniels Packing</td>
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<td>12&quot; Monkey Wrench</td>
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<td>14&quot; &quot;</td>
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<td>Hand Hammer</td>
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<tr>
<td>7 lb. Hammer .06 pr.#</td>
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<tr>
<td>Axe</td>
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<td>.23</td>
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<tr>
<td>Hand Saw</td>
<td>1</td>
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<td>.50</td>
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<tr>
<td>1 Gal. Oil Cans</td>
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<td>.50</td>
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<tr>
<td>1/2&quot; Squirt Cans</td>
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<td>.25</td>
<td>.50</td>
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<tr>
<td>1 Qt. Oiler</td>
<td>1</td>
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<td>.25</td>
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<tr>
<td>Cold Chisels 2# .06 pr.#</td>
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<tr>
<td>12# Bar</td>
<td>1</td>
<td>.06</td>
<td>.72</td>
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<td>4&quot; Tees</td>
<td>5</td>
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<td>8.75</td>
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<tr>
<td>2 1/2&quot; to 2&quot; Reducer</td>
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<td>2&quot; Jenkins Globe Valves</td>
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<td>2&quot; to 1 1/2&quot; Bushing</td>
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<td>.14</td>
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<tr>
<td>1 1/2&quot; Tee</td>
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<tr>
<td>1 1/2&quot; to 1 1/4&quot; Bushing</td>
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<td>1 1/4&quot; to 1&quot; Bushing</td>
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<td>.07</td>
<td>.07</td>
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<tr>
<td>1&quot; Iron Stop Cock</td>
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<td>1.30</td>
<td>1.30</td>
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<td>4 4&quot; to 2&quot; Bushings</td>
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<td>.50</td>
<td>2.00</td>
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<tr>
<td>2&quot; Plugs</td>
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<td>.10</td>
<td>.20</td>
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<tr>
<td>7# Hammers, striking 70#</td>
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<td>.06</td>
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<tr>
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Totals forward, 113.44 54.42
TOP PUMP HOUSE
TOOLS AND PACKING.

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<td>1 Pt. 4&quot; Flanges</td>
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<tr>
<td>2 2&quot; Elbows</td>
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<td>.28</td>
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<tr>
<td>1 1 1/2&quot; Plug</td>
<td>1</td>
<td></td>
<td>.07</td>
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<td></td>
<td></td>
<td><strong>Less 75%</strong></td>
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<td></td>
<td></td>
<td><strong>Total Tools &amp; Packing</strong></td>
<td><strong>$ 83.46</strong></td>
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RUBBER SUPPLIES AT PUMP.

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<td>3/4&quot; Daniels Packing</td>
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<td>1/2&quot;</td>
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<td>3/8&quot;</td>
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<td>.35</td>
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<td>1/2&quot;</td>
<td>2</td>
<td>.38</td>
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<td>3/8&quot;</td>
<td>20</td>
<td>.45</td>
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<td>1/8&quot; Rainbow</td>
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<td>.45</td>
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<td>1/8&quot; Cloth Insertion Packing</td>
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<td>27.00</td>
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Pump house bottom of No. 2,

100.00

43
WIRE - ROPE.

2250 Ft. 1-1/4" Steel for Cage  .46 1035.00 - 50-5-30% 344.14
440 " 3/4" " Transfer .18 79.20 - 50-5-65 2/3 12.54
290 " 1" " U.G.#6 Shaft .30 37.00 " 13.77
198 " 3/4" " No. 5 Shaft .18 35.64 " 5.64
135 " 3/4" " Guides for D .18 24.30 " 3.85
140 " 3/4" " " .18 25.20 " 3.99
210 " 3/4" " " .18 37.80 " 5.98
120 " 3/4" " " .18 21.60 " 3.42
1800 " 1-1/4" "(1000 fair, 800 scrap) .46 460.00 " 72.83
750 " 1" " Guide for shaft house .30 225.00 " 35.63

Total Steel Rope, $ 501.79

365 Ft. 3/4" Manila Rope-Good 73# .06 4.33
112 " 3/4" " -Fair 221/2#.06 1.35
232 " 1 1/4" " -Fair 100#.06 6.00
475 " 1 1/4" " -Good 220#.06 13.20
115 " 1 1/2" " -Fair 76 1/2# " 4.59

Total Manila Rope, $ 29.52

BLOCKS.

2 Pr. 8" Double Wood Blocks 7.50 ea. - 70-10% 4.05
1 " 8" Single " 4.45 70-10 1.20
1 14" Triple Iron " 16.50 60 % 6.60
1 12" Iron Snatch Block 17.00 50-5 8.08
1 14" Dble. Iron Block 11.75 60 4.70

Total Blocks, 24.63

2000 Ft. 1-1/4" Steel Rope Guides for Pumps .46 920.00
1500 " 1" " " " .30 450.00

Less 50-5-662/3% 1270.00 $ 216.92
UNDERGROUND TRACKS BOTTOM LEVEL.

8747  Ft. 24" Rails (in use) 63976#
506   "       "       "    (not in use) 4048#
2253  "       "       "  7402#
7 Throw Switches (in use)
24 Cross "

at 33.50 gr. ton, 1107.76

Added to make their figures, 302.17

Total, 1409.93

CAGE LEVEL.

2433 Ft. 24" Rails (in use) 19464#
432   "       "       "    (not in use) 3456#

28920# at 33.50 gr. ton 342.77

3 Throw Switches
9 Cross "

Added to make their figures, 342.77

Total, 399.54

BURIED UNDER SAND IN LEVEL.

2100  Ft. 24" Rails- 16800#
12 Switches

332.40

RAILS ON #2 TRESTLE

869  Ft. 60 lb. Rails 17380#

Added to make their figures, 88.13

Total, 243.31

RAILS ON #1 TRESTLE.

1123  Ft. 50 lb. Rails- 11230#
2 Switches
30 Sets Track Splices, per set of 4 at 35 $ pr. 2

Added to make their figures, 96.37

Total, 217.64
### Surface

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<td><strong>Total Surface</strong></td>
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### Old Lumber

**No. 2 Stockpile Bottom**

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<td>23,500</td>
<td>$0.20</td>
<td>$4,700</td>
</tr>
<tr>
<td>Lumber</td>
<td>39,000</td>
<td>$0.20</td>
<td>$7,800</td>
</tr>
<tr>
<td><strong>Total Old Lumber</strong></td>
<td>62,500</td>
<td></td>
<td><strong>$12,500</strong></td>
</tr>
</tbody>
</table>

### No. 1 Stockpile Bottom

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Unit Cost</th>
<th>Total Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lumber</td>
<td>60,000</td>
<td>$0.20</td>
<td>$12,000</td>
</tr>
<tr>
<td>Lumber</td>
<td>22,500</td>
<td>$0.20</td>
<td>$4,500</td>
</tr>
<tr>
<td><strong>Total Old Lumber</strong></td>
<td>82,500</td>
<td></td>
<td><strong>$16,500</strong></td>
</tr>
</tbody>
</table>

### Horses and Wagons

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Unit Cost</th>
<th>Total Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Horses with harnesses</td>
<td>2</td>
<td>$150.00</td>
<td>$300.00</td>
</tr>
<tr>
<td>Single horse</td>
<td>1</td>
<td>$100.00</td>
<td>$100.00</td>
</tr>
<tr>
<td><strong>Total Horses</strong></td>
<td></td>
<td></td>
<td><strong>$400.00</strong></td>
</tr>
<tr>
<td>Wagons</td>
<td>2</td>
<td>$25.00</td>
<td>$50.00</td>
</tr>
<tr>
<td>Timber trucks</td>
<td>2</td>
<td>$40.00</td>
<td>$80.00</td>
</tr>
<tr>
<td>Sleighs</td>
<td>3</td>
<td>$15.00</td>
<td>$45.00</td>
</tr>
<tr>
<td>Dump Cart</td>
<td>1</td>
<td>$25.00</td>
<td>$25.00</td>
</tr>
<tr>
<td><strong>Total Wagons &amp; Sleighs</strong></td>
<td></td>
<td></td>
<td><strong>$200.00</strong></td>
</tr>
</tbody>
</table>

### Mules

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Unit Cost</th>
<th>Total Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mules</td>
<td>6</td>
<td>$74.17</td>
<td>$445.00</td>
</tr>
</tbody>
</table>

**Horses (as above)** ×

**Total Horses & Mules**

|                          |            |           | **$905.00** |

---

Annual Report_Mining_MS86100_2076_1903_4 of 4_377.tif
TOOLS USED IN BLACKSMITH SHOP UNDERGROUND.

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anvil</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>10# Sledge</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Small Hammers</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Total Tools</strong></td>
<td></td>
<td>5.00</td>
</tr>
<tr>
<td>36-20&quot; Iron Sheaves</td>
<td></td>
<td>62.40</td>
</tr>
<tr>
<td>1-4 ft.</td>
<td></td>
<td>25.00</td>
</tr>
<tr>
<td>2-6 &quot; Bicycle Sheaves</td>
<td></td>
<td>80.00</td>
</tr>
<tr>
<td>4-8 &quot;</td>
<td></td>
<td>160.00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td>448.00</td>
</tr>
<tr>
<td><strong>OFFICE FURNITURE</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No. 8 B. P. E. Press</td>
<td>1</td>
<td>8.00</td>
</tr>
<tr>
<td>Shannon Files</td>
<td>3</td>
<td>1.50</td>
</tr>
<tr>
<td>Office Chairs (lot 2.00)</td>
<td>3</td>
<td>2.00</td>
</tr>
<tr>
<td>No. 613 P. O. Scale</td>
<td>1</td>
<td>1.00</td>
</tr>
<tr>
<td>Roll Desk</td>
<td>1</td>
<td>15.00</td>
</tr>
<tr>
<td>Standing Desk</td>
<td>1</td>
<td>12.00</td>
</tr>
<tr>
<td>Flat Table</td>
<td>1</td>
<td>7.50</td>
</tr>
<tr>
<td>Swinging Chair</td>
<td>1</td>
<td>3.00</td>
</tr>
<tr>
<td><strong>Total Office Furniture</strong></td>
<td></td>
<td>50.00</td>
</tr>
<tr>
<td>Herring Safe</td>
<td>1</td>
<td>50.00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td>100.00</td>
</tr>
</tbody>
</table>
CARPENTER SHOP.

1 5" Blacksmiths Vice
2 6" - 2" diam. Grindstone
3 Angle Boring Machine with bits sizes of bits 2", 1 1/2", 1 1/4", 1 1/8"
4 2 1/2 x 24" Jack Screw
5 1 1/2 x 18"
6 2 x 14"
7 2 1/2 x 12"
8 1 2 x 12"
9 1 12" Broad Axe
10 5 ft. Crosscut saws and handles
11 Single Bitted Axes
12 24" Steel Squares
13 Adzes
14 1 1/2" - 12" Twist ship auger
15 1 1/4" - 12"
16 1 1/8" - 12"
17 1" - 12"
18 7/8" - 12"
19 3/4" - 12"
20 5/8" - 12"
21 18# Sledge Hammer
22 2" - 6" Twist Auger
23 14# Hammers
24 Scoop Shovel
25 Cant Hooks

Lot, 55.00

33 Lbs. Steel Bars (for Jack screws) .06 1.98
90 " " " (pinch bars) .06 5.40
5 3/8" Chains 91# 33 1/3% .05 4.55
2 1/2" " 46# " .05 2.30
2 5/8" " 95# " .05 4.95
2 3/4" " 185# " .05 9.25

Less 33 1/3% 21.05 14.03

Total, 21.41 0.00
### DRILL STEEL, IRON, SCRAPPERS, ETC. UNDERGROUND.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Quantity</th>
<th>Unit</th>
<th>Price Per Unit</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>560</td>
<td>Lbs. Machine Drill Steel</td>
<td></td>
<td></td>
<td>0.06 l/2</td>
<td>36.40</td>
</tr>
<tr>
<td>1645</td>
<td>&quot; Hand &quot;</td>
<td></td>
<td></td>
<td></td>
<td>106.92</td>
</tr>
<tr>
<td>185</td>
<td>&quot; Iron Jumpers</td>
<td></td>
<td></td>
<td>0.03</td>
<td>5.55</td>
</tr>
<tr>
<td>125</td>
<td>&quot; &quot; Scrappers</td>
<td></td>
<td></td>
<td>0.03</td>
<td>3.75</td>
</tr>
<tr>
<td>115</td>
<td>&quot; &quot; Augers</td>
<td></td>
<td></td>
<td>0.03</td>
<td>3.45</td>
</tr>
<tr>
<td>15</td>
<td>&quot; 3/4&quot; Round Iron</td>
<td></td>
<td></td>
<td>0.03</td>
<td>0.45</td>
</tr>
<tr>
<td>35</td>
<td>&quot; 1 1/4&quot; &quot;</td>
<td></td>
<td></td>
<td>0.03</td>
<td>1.05</td>
</tr>
</tbody>
</table>

**Total,** 157.57

**Less Amt. to make their figures,** 4.07

**Net. Amt.** $153.50

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Quantity</th>
<th>Unit</th>
<th>Price Per Unit</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>Small Hammers 175#</td>
<td>0.06 net</td>
<td></td>
<td></td>
<td>10.50</td>
</tr>
<tr>
<td>7</td>
<td>Sledge Hammers 84#</td>
<td>0.06 &quot;</td>
<td></td>
<td></td>
<td>5.04</td>
</tr>
<tr>
<td>12</td>
<td>Saws (hand)</td>
<td>9.00-50%</td>
<td></td>
<td></td>
<td>4.50</td>
</tr>
<tr>
<td>13</td>
<td>Axes</td>
<td>5.50-50%</td>
<td></td>
<td></td>
<td>2.98</td>
</tr>
<tr>
<td>44</td>
<td>Picks</td>
<td>7.50-50%</td>
<td></td>
<td></td>
<td>13.75</td>
</tr>
<tr>
<td>2</td>
<td>Crosscut Saws</td>
<td>2.45-50%</td>
<td></td>
<td></td>
<td>2.45</td>
</tr>
<tr>
<td>24</td>
<td>Shovels</td>
<td>7.50-50%</td>
<td></td>
<td></td>
<td>7.50</td>
</tr>
</tbody>
</table>

**Total,** $46.72

### MISCELLANEOUS TOOLS.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Quantity</th>
<th>Unit</th>
<th>Price Per Unit</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>Tapping Rests</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>&quot;Old Men for Wrenchet)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>22</td>
<td>Bolt Hedders</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Small Mandrills</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Bolsters</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Bottom Fullers</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Top Fullers</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Side Sets</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Center Punch</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>125</td>
<td>Blacksmith Punches</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Planters</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Hedders for Anvil</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Rivet Sets</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Dogs for setting tires</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Lot,** 49                       Lot, 20.00 $0.00
TOOLS IN BLACKSMITH SHOP - ON SURFACE.

1 Blacksmith Anvil 226#
1 Bench Vice
1 Blacksmiths Drill Press
2 Monkey Wrenches
1 Cast Iron Mandrill
1 Wrenchet Drilling Machine
1 1 Gal. Oil Can
5 Blacksmith Sledges 55#
9 Drills for drillPress
15 Drills for Wrenchet
1 Swedge Block 280#
43 Blacksmiths Tongs
9 Hand Chisels
11 Blacksmith Chisels
3 Ladles
17 Bottom Swedges
12 Top Swedges
1 Small Trun Buckle
1 Set Blacksmith Dies 1/4 to 1 1/4
1 48" Bellows

Lot, 80.00