

Vulcan Iron Works
San Francisco 6th April 1854.

N. E. Richmond Esqr.
77 Davis Street.

Dear Sir,

In reply to your note, we beg to state, that the list of Materials your friend requires for a Muley Saw Mill, appears very incomplete; we therefore, take liberty to subjoin a new list of the necessary Iron viz:

- 1 Crank Wheel 4 feet Diameter with wrist and counterbalance weight.
- 1 Crank Shaft 5" diam. x 6 or 7 feet long of wrought Iron turned and fitted to pulley's, crank wheel boxes or pillow blocks
- 2 Pillow Blocks or Boxes filled with Babut Metal
- 12 Boles for Pillow Blocks, 30" long for the foundation
- 1 Main Pulley on Crank Shaft from 24 to 36" diam. x 12 or 14 inch wide, of cast Iron, bored, turned and fitted to shaft
- 1 Pulley about 12" diam. x 4" bore, on Crank Shaft for feed
- 1 Pulley " 16" " " x 4" face, for running back, fitted to main or crank shaft
- 2 Pitman Straps with Brass Boxes.
- 1 Wrought Iron Steel in Brass Crop head with jaws to receive the saw.
- 2 Saws to steady the Top of Saw
- 4 Slides or guides for top and bottom of Saw
- 2 Tiers of Casting to receive the wooden dies for steadying the saw at the top of the log. (This Apparatus is made to raise and lower, with racks and pinions)

- 4 Cast Iron supports for Saw Slides.
 2 Shafts with cones, gears & pinions for feed
 1 " " Gear and 2 pinions for carriage.
 16 pieces Racks for carriage
 32 " V Slides do
 With screws, Bolts &c

The Whole of the Above, we can furnish for \$1200.00

Mutley Saws are worth about \$2.00 \$ foot
 Belting from 12 1/2 to 16 lbs \$ foot for each Inch in width

2 Gudgeons for Main Shaft, 18 Inch Diam. Wings 16 Inch long,
 journals 4 " Diam: 9 " long will cost \$88.00
 4 Bands for do, Iron 3/4 x 3 1/2 or 4 Inch \$52.00

2 Pillow Blocks with Babber Metal Boxes \$35.00

Price of heavy Castings 11 Cts.

We beg to add that every order you might entrust to our care will be executed in the best manner and with dispatch, having large facilities for so doing.

Yours Very Respectfully

Mill

N. E. Raymond Esq

77 Davis Street