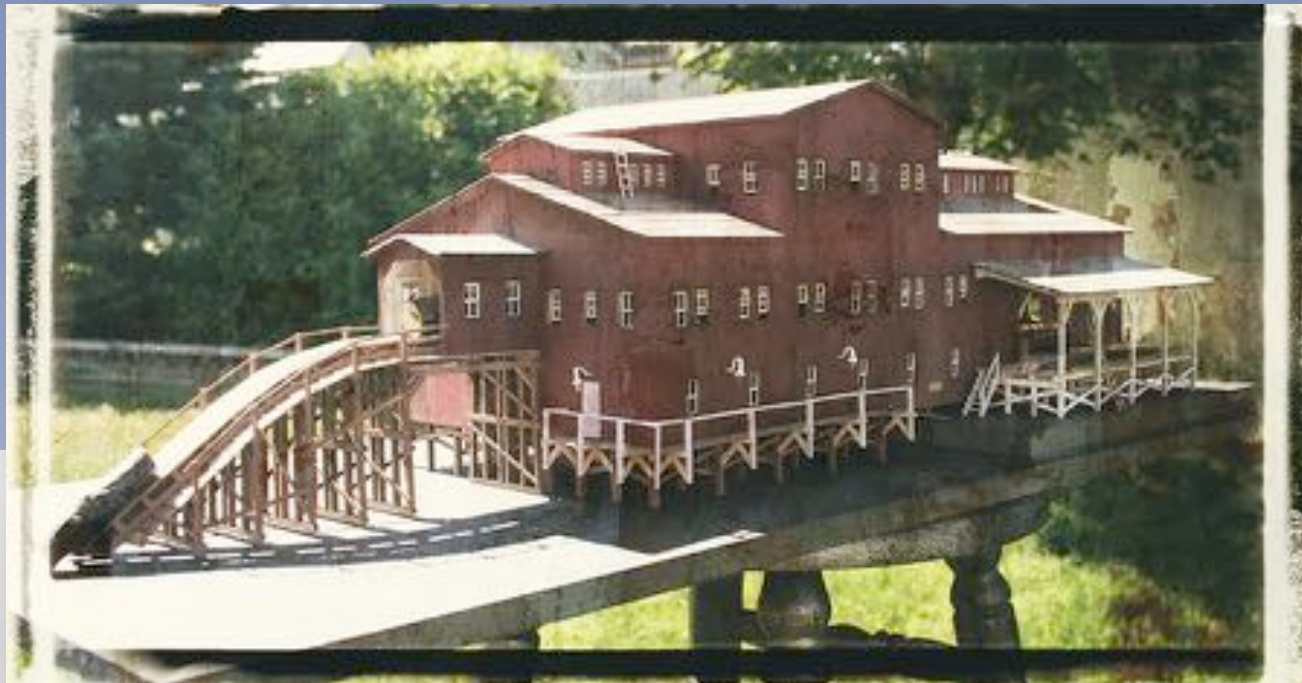


LONE PINE LUMBER CO. SLATYFORK SAWMILL

AP Judging Notes



CONSTRUCTION

WORKMANSHIP

The Slatyfork Sawmill is the main focal point of a group of 19 kits produced by B.T.S. The instructions for the sawmill say there are over 1,600 parts – I didn't count them. ☺ The kit plus the interior details from Keystone, I have handled over 2,000 parts to make this kit come alive!



This kit can be overwhelming. It was great to get started but it is so big that I actually worked on it on-and-off for over a decade!



The main framing is made of 8 pieces. The mill has 4 and the saw filers room has 4. A model railroad scale rule is shown for comparison. It is 12 inches long.

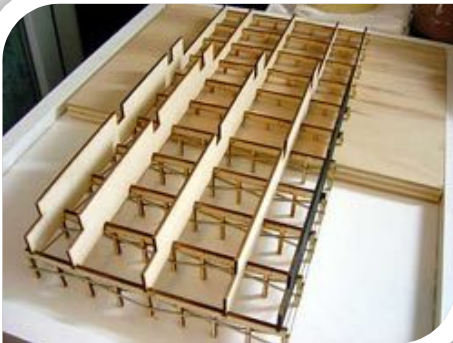
CONSTRUCTION



The sheathing is a thin layer scribed on both sides to show board detail inside and out. It was difficult to get the glue applied to such a large piece before drying out. I decided to try using Krylon Spray Adhesive. I worked on one wall at a time, masking off the other areas I didn't want sprayed. It was tricky but worked out very well. It has been just over ten years now and still glued just as good as ever!

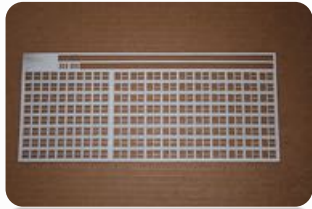


This bird's-eye-view shows the different layers of the floors. The only interior detail included is the log platform area. The rest of this beast is filled with details I added not from the kit.



This shot shows the floor supports. The plywood at the back is where the ground is and the white area in front is where the posts go into the water. During construction this made a nice base to work on the model.

CONSTRUCTION



I really didn't like doing windows but this beast has nearly 80! They are positionable so the lower ones I had closed but where the machinery and people were I varied it with some open at different levels. Now I don't mind doing them anymore!

When it came time to cut the paper for the tar paper roofing I came up with an idea.

- 1) Number 1 in the picture shows where I put down two layers of tape on my cutting board. Keep the right edge very straight. This is used as a stop for the paper to go against.
- 2) Next I put down a single piece of tape above and below where the paper will go next to the first strip of tape. I wanted my strips to be 36 scale inches wide so I made this measurement from the first piece onto each of the second pieces. Using these marks I laid the scale rule parallel to the first piece 36 scale inches away and cut the second pieces of tape. Now the second piece is exactly 36 scale inches away from the first.
- 3) The next step is to place some small pieces of tape over the pieces just cut. (Number 2 in the picture) Keep the edge lined up perfectly with the new cut just made. Make 3 or 4 layers. This will be the stop for the cutting guide.
- 4) Finally, push the paper against the tape edge #1. Place your cutting guide (I used my scale rule.) against the tape edge #2 (arrows in picture). The extra thickness makes it higher than the paper so the cutting guide goes right where you want it to go. Using a sharp blade make your cut. As you cut keep pressure on the cutting guide so the paper underneath does not move. (Very important!)
- 5) Repeat step #4 over and over until you run out of paper or have enough to cover your roof.



The undersides of the roofs have lots of rafter details that also give them strength to be removable.



DETAIL

QUALITY & AMOUNT



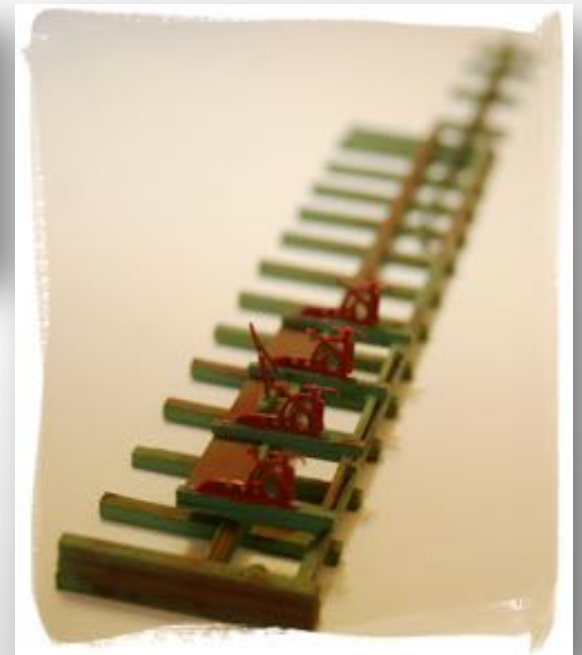
Eleven Keystone Locomotive Works machinery detail kits were used for the interior of the sawmill.

From this:

To this:

And this:

To this:



DETAIL



This early shot shows the band saw in place. This is a dual band saw mill so almost all of the interior machinery had to be made twice and some in mirror image for the left and right side!



Nothing was provided for the interior of the saw filer's room except a couple of extra saw blades. I used the wood left over from the laser cut boards to make my own dimensional lumber and details from my scrap box to fully detail the otherwise empty room.

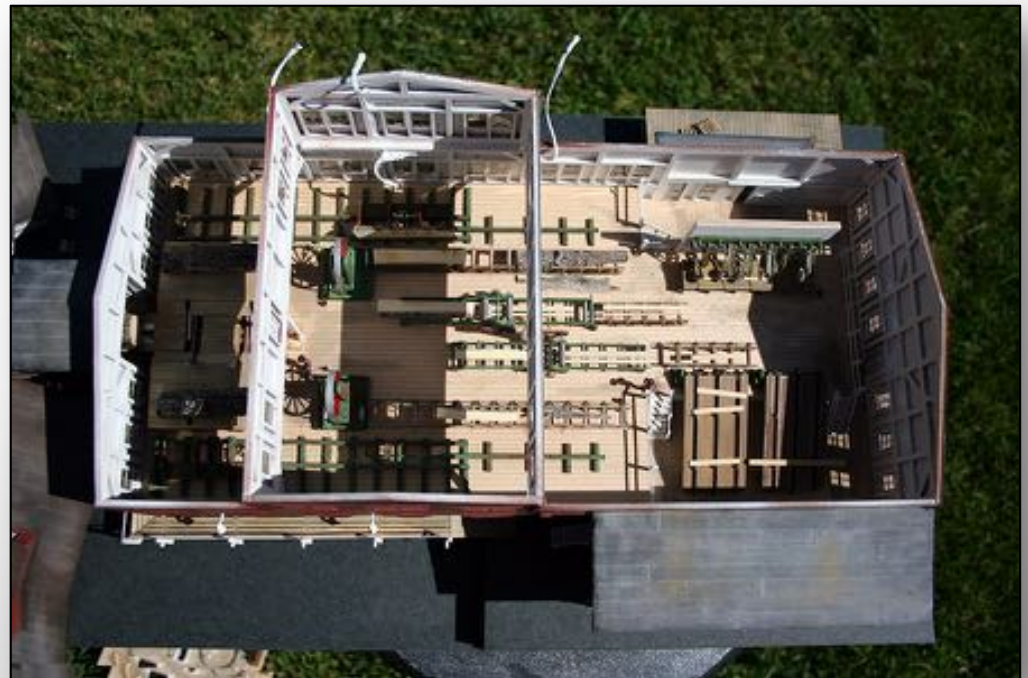
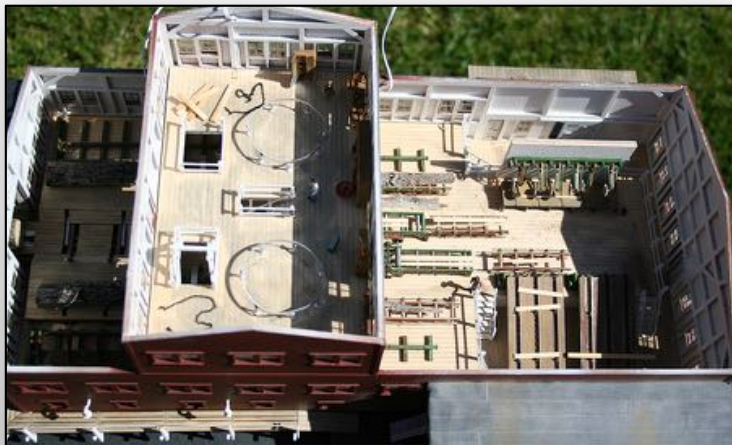
DETAIL



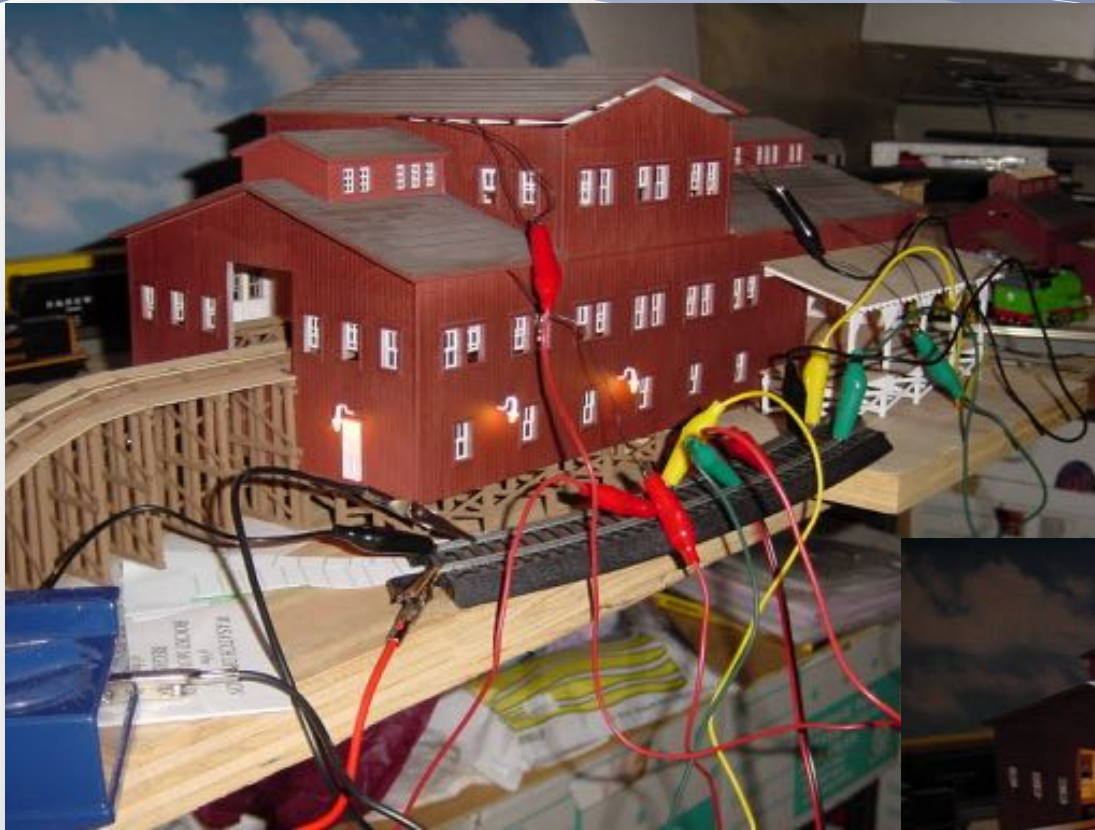
This is mostly what the inside of the building looks like with the kit details. It does include some railings and the log deck.



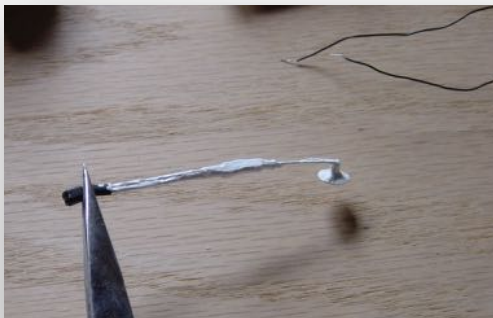
The two pictures below shows what I added including Keystone detail kits and scratch built items.



DETAIL

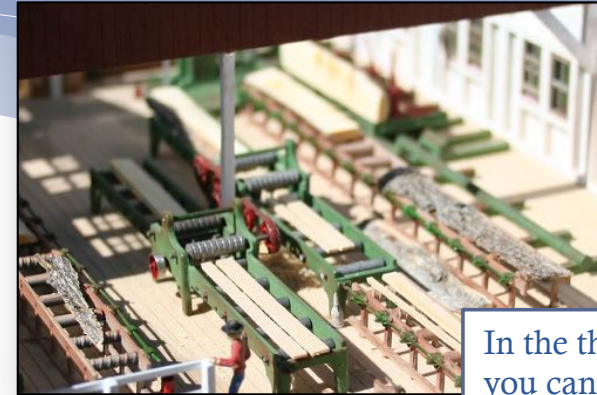


I added full lighting inside and out. It was a pain to hide the wires but worth it because the interior is fully detailed. Also, the wires attached to the roofs have connectors so that the roofs are fully separable from the structure. In these pictures I am using a piece of track as a buss bar to test the lighting.



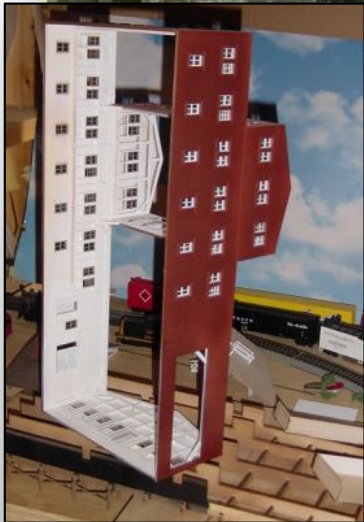
CONFORMITY

PROTOTYPE PRACTICE



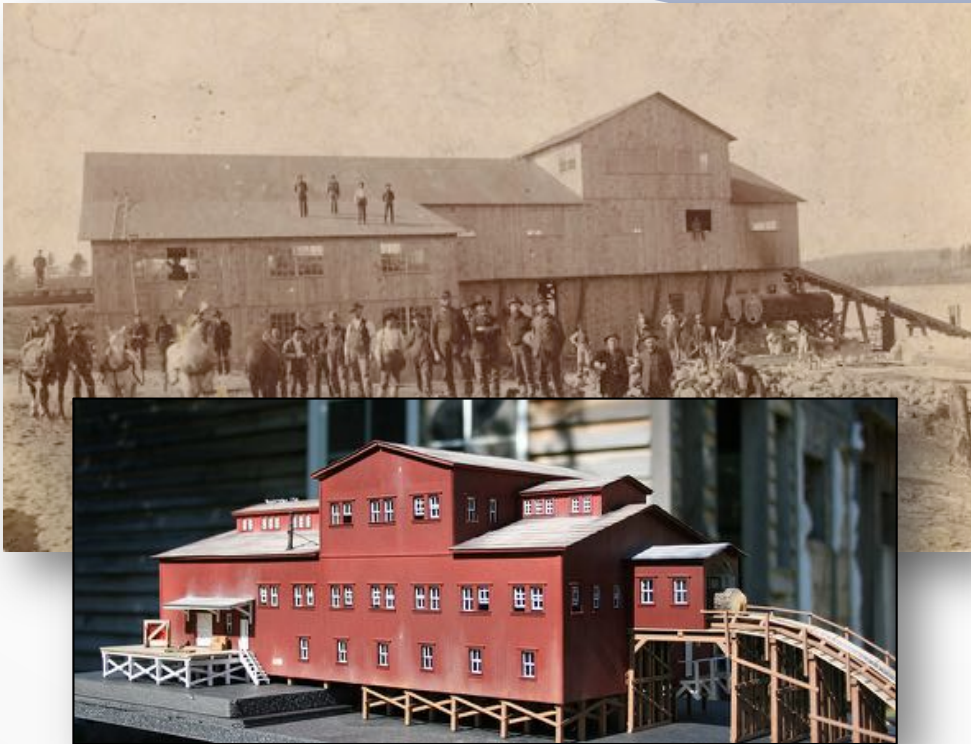
In the this picture you can also see the partial log (near the top) being cut on the shotgun carriage similar to the picture on the left.

One thing I did was paint the interior white. I didn't like the black laser cut showing on the framework and I had heard at a logging convention that sawmills were often painted white inside so they weren't so dark. The prototype picture above shows this practice. Since the walls were already put together I started with two different size brushes and some white paint. After several hours I had little more than one wall done. It was taking too long. I got out a can of white spray paint and using the skills I've developed over the years I was able to get in the nooks and crannies. It was not only easier but went so much faster and had a smooth finish. I think it turned out great!



This prototype board shows the rough sawn edge still on. I was helping someone move and they had these boards. It was a week after I took the picture above of my model with a similar board!

CONFORMITY



This historic picture shows a similar mill that is two stories plus the saw filers room above where the band saws are located.



Even though they may not be seen, the floor of the saw filer's room has all the joists to support it fully, just like the real thing.

The entire band saw was modeled even though part of it is hidden under the floor when installed.



CONFORMITY



I modified the jack slip so that the log dump could go under it. I saw a picture of a prototype (I have been seriously looking for it but can't find it) that had it that way. I really liked the contrast and it fit my module better going that direction. After the logs are dumped the empties fit underneath. I modified the log dump and the jack slip. I had to remove one of the bents and added more diagonal bracing. The picture on the right looks like the tracks go under but it's hard to see. The one I saw was definitely more like how I have modeled it which is really cool because it makes it more compact as well as a better arrangement for the supporting buildings on the module.

FINISH & LETTERING

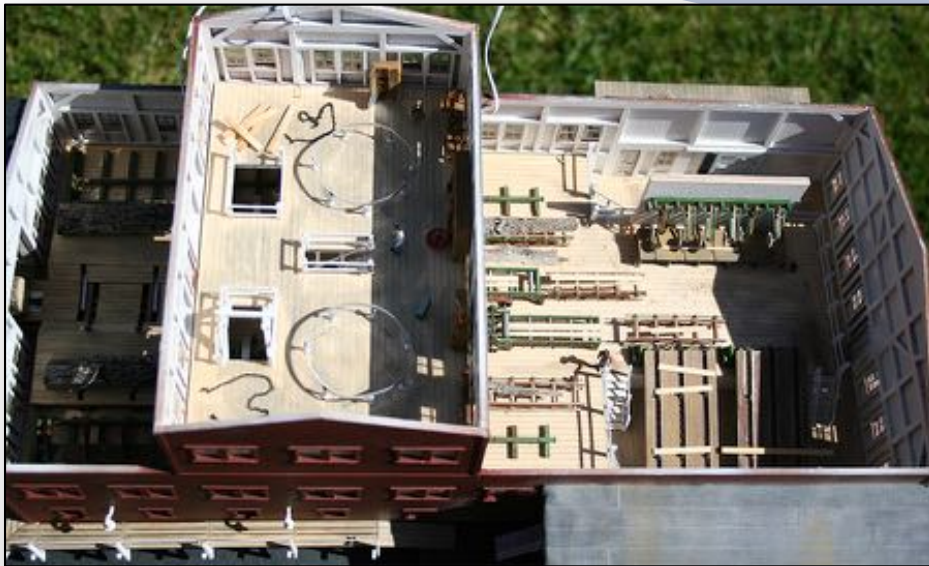
GENERAL APPEARANCE



For extra projects like adding this sign, I used the leftover wood from the laser cut parts. I printed my own sign, sanded it thin from the back (and front) glued to the wood shown, used thicker leftover pieces to make a frame and painted and weathered it before gluing it to the building. Also, at the base of all the stairs are no trespassing signs. ☺

SCRATCH BUILT

AMOUNT OF PARTS BUILT BY THE MODELER



Scrap wood to be thrown away? I think not! Scale strip wood or sections cut to width can be used from this seemingly "done" piece of wood. Large timbers from the bigger pieces and smaller 2x4's with the thinner ones.

Nearly everything inside the mill is not part of the kit. Many Keystone kits were used as well as extra parts from my parts box I've collected over the years. When needing strip wood, I used the "in between" parts leftover from the laser cut sheets. These were used for adding bracing to the jack slip, the A-frames for bringing up the saw blades into the saw filer's room and extra wood being cut on the machines. Tree branches from a dead tree in my backyard were saved and cut on a jigsaw to scale length and long-way to represent being cut on the big band saws. Extra parts like leftover chain and the "feet" from the transfer tables not used were put to good use holding up the saw blades being sharpened.

