New diamond, Cutting edge

- This is the cutting edge of the new diamond
Cutting edge relapped diamond

- Relapped diamond cutting edge
Diamond before relap
Difference New & Relapped Diamond

- The following is a little hard to see with our microscope but can be seen with the 20 power magnifying glass.
- For the relapped diamond this surface perpendicular to the surface is really perpendicular, but for the new diamond it is at an angle. The picture shows the angle, but not very well.
- I don’t know what this means.

Surface perpendicular to the Cutting surface. For the new diamond we see it’s not perpendicular to the cutting Surface. It’s blurred here.
We want to produce a small sample to test our production technique, say 10. In discussing this with Dan and Janina, Janina suggested a fixture to get the fibers glued in the ferrules with a consistent length sticking out the bottom of the ferrule. She and Dan drew it up. It looks fairly simple, so I thought we would discuss it with Bob Flight when he comes out. It looks like it shouldn’t take much of his time. This still assumes we have to cut the fibers with the correct length.
T2K production

- I talked with Dave Warner and he asked for a schedule
  - I said we ship 10 of each type out the end of next week and ship the rest the week before Thanksgiving
- This is probably too soon to develop fixturing for, so that we try to do this without fixturing, especially the 1st 10
- If these 1st 10 turn out OK, we try to do the rest with the same technique
- With the mapper coming up, I’m having Janina work on this
- If we can get this fixturing in time, we will use the fixturing
- In any case we would like to try the fixturing during this period of time
Ferrules for this Production

- The cut back ferrules arrived
- There is some flashing on the nipple which has been cut back
- This might be a problem, so I think the first thing to do is have some short fibers glued in the ferrules to see if there is any gluing problem, i.e. backflow
  - In addition it should give a clue into what we might need to do to remove the flashing