

Transcripts of videos in module “Running Levels”

Slide 5

Okay I can't with one turn get myself up in position to shoot the top of the bridge railing. So we are going to have to turn and work our way up the hill. What we have done is put a turning point there at the base of Stan's feet and he is holding the rod there on that turning point and I've given that an elevation. Now I will go up and set up on the bridge and back shoot that turning point to get a new HI. Okay what we have done, I've moved up now on the roadway. I'm taking a back shot on the turning point that we set and this will give me a new HI so that I can shoot the wire weight and also the bridge rail. So I need to take this shot now and I've got a 7.601.

Slide 14

We have now moved the instrument down to the low water bank so that we can get a foresight on the bottom of the wire weight. We shot a foresight from our initial height of instrument on the other side of the river to turning point number one to establish an elevation. We are now going to take a backsight to turning point number one to establish our second instrument height. The rod read is 3.997. I'm now going to ask my rod man to raise the wire weight up until it hits the cross hairs of the instrument. The cross hairs of the instrument are at the instrument height which we established from the backsight to turning point number two. Knowing what the instrument height is and comparing it to the read on the wire weight dial will let us know if the wire weight is set at the correct elevation. Bring it up, up. That's good. I'm now going to ask my rod man what the dial reads on the wire weight gage. He says 14.58. And the height of instrument is 14.58.

Slide 16

We are now going to take a foresight on the water surface. Mike is holding the rod on a stable rock on the channel bed. I'm going to ask Mike to read the back of the rod, the self reading portion of the rod, to give me the depth of water. The depth of the water is 0.380 feet, and now I'm going to take a foresight to get an elevation of the channel bed. And my initial rod reading

is 6.219. I'm going to take a quick check, which is also 6.219. So I have an elevation of that rock, the top of that rock on that channel bed of 2.518 feet. I'm going to add the depth that Mike reported to me of 0.380 feet to get an elevation of the water surface of 2.898 feet.

We are now going to take a foresight on the water surface. Mike, my rod man, is holding the rod on a rock at the water surface. I'm going to get a reading off the rod and then ask Mike to provide me with an accuracy estimate of the rod held onto the rock. My initial read is 11.021 feet. And my second read is 11.021 feet as well, which gives me an elevation of the water surface of 4.693 feet. Mike I'm going to ask to get a reading of the primary reference gage, the vertical staff plate. He says the waters surface according to the staff plate is 4.68 feet plus or minus 0.02 and our elevation of 4.693 agrees within the 0.02 accuracy estimate that Mike provided earlier.