11683.9.1



The characteristics of the slug flow at the Riser End changed over time; similarly, the period and range of motion of the riser also changed over time. This created a unique signature in the pattern of slug flow observed at the outlet. The signature of the slug flow, riser motion, and the flow through the riser are intricately linked. Knowing the signature and riser motion from the ROV footage, I was able to calculate the flow rate through the riser.

