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HYPACK® DQM for Pipeline Dredges

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The United States Army Corps of Engineers (USACE) will soon be requiring pipeline dredges over 18 inches to adhere to DQM specifications on government contracts. These specifications can be found at the following location: http://dqm.usace.army.mil/.

In the specification section, the information on how the contractor will adhere to the program is found in section 35 20 23.33: *National Dredging Quality Management Program: Pipeline Hydraulic Dredge Specification*.

HYPACK has made a provision for this specification in the NewInc.dll device driver. This driver, for now, is based on a customer's request only. It will be part of the standard HYPACK® starting in HYPACK® 2017. The driver will do the following:

- **Read and calibrate all current inclinometers** that are currently available in the Inclinometer.dll.
- **Allow for user input for downtime reports** for such events as maintenance, repairs etc., which is all transmitted to USACE DQM.
- **Input of the USACE Contract number.** This is used by the government to identify your plant.
- **Production formulas.** These formulas can be user-defined or input by the government for material type.
- **Compile DQM JSON format data** for transport to the USACE DQM computer.

FIGURE 1. *NewInc Driver Setup Dialog—Inclinometer Tab (left), DQM Data Tab (right)*

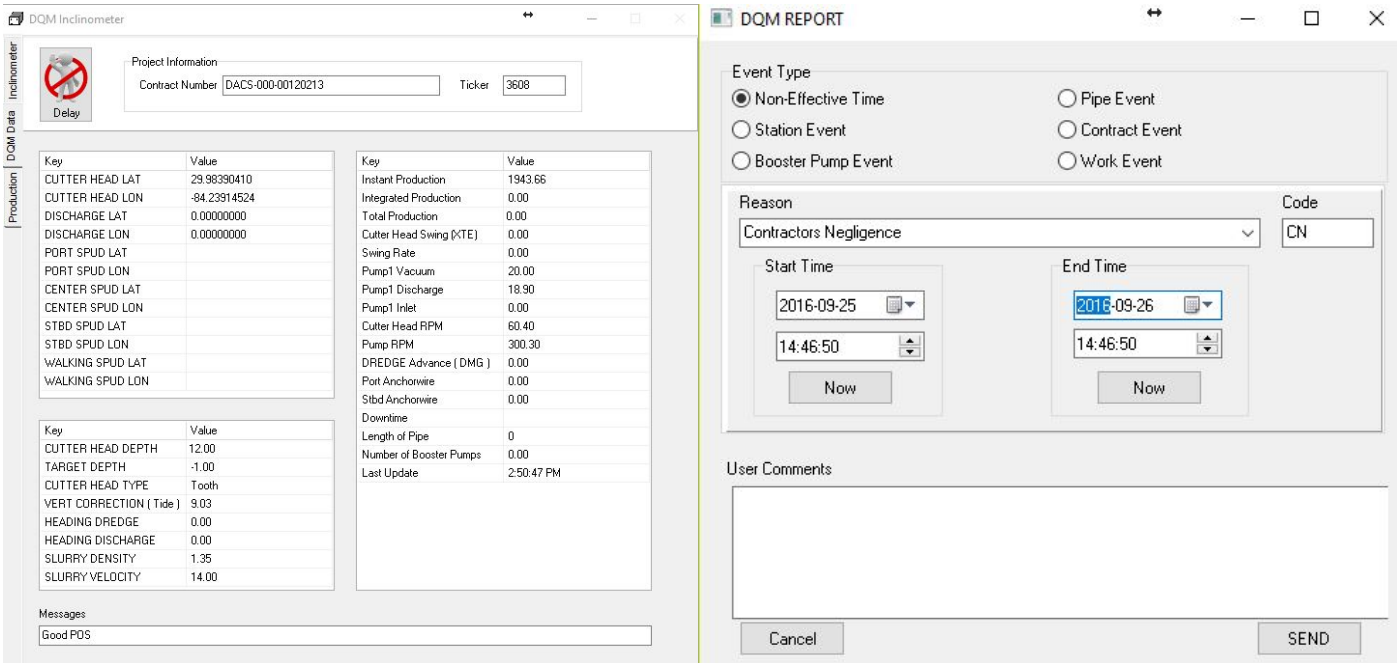
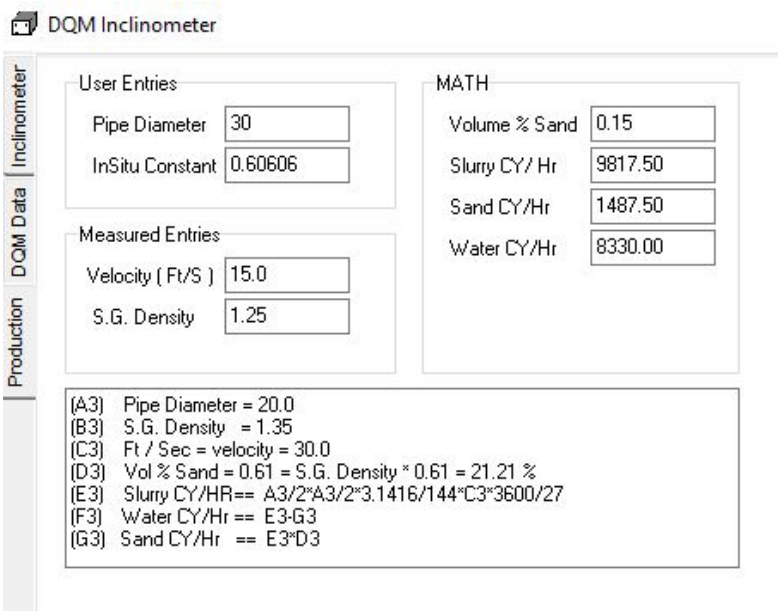
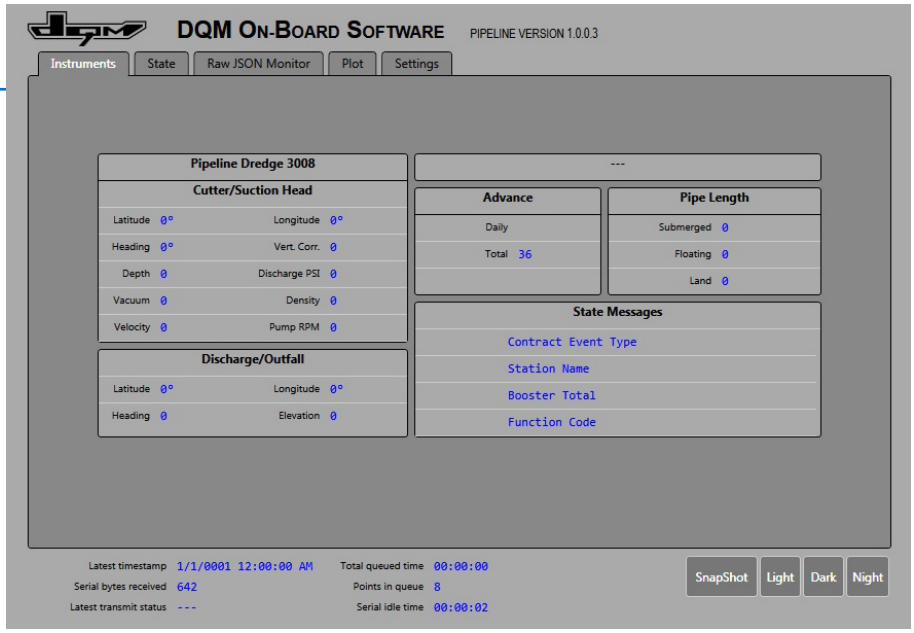


FIGURE 2. *NewInc Driver Setup Production Tab*



DQM production is computed in real time with sensor input.

FIGURE 3. *NewInc.dll Device Window*



Each dredge will have a separate DQM PC that receives the JSON data from HYPACK® and is sent to the DQM data center via Internet connection. With the NewInc.dll and a dedicated DQM computer aboard, you can use HYPACK® to be in full compliance of the DQM Specification