DREDGEPACK® Implementation of the Silent Inspector Pipeline Profile
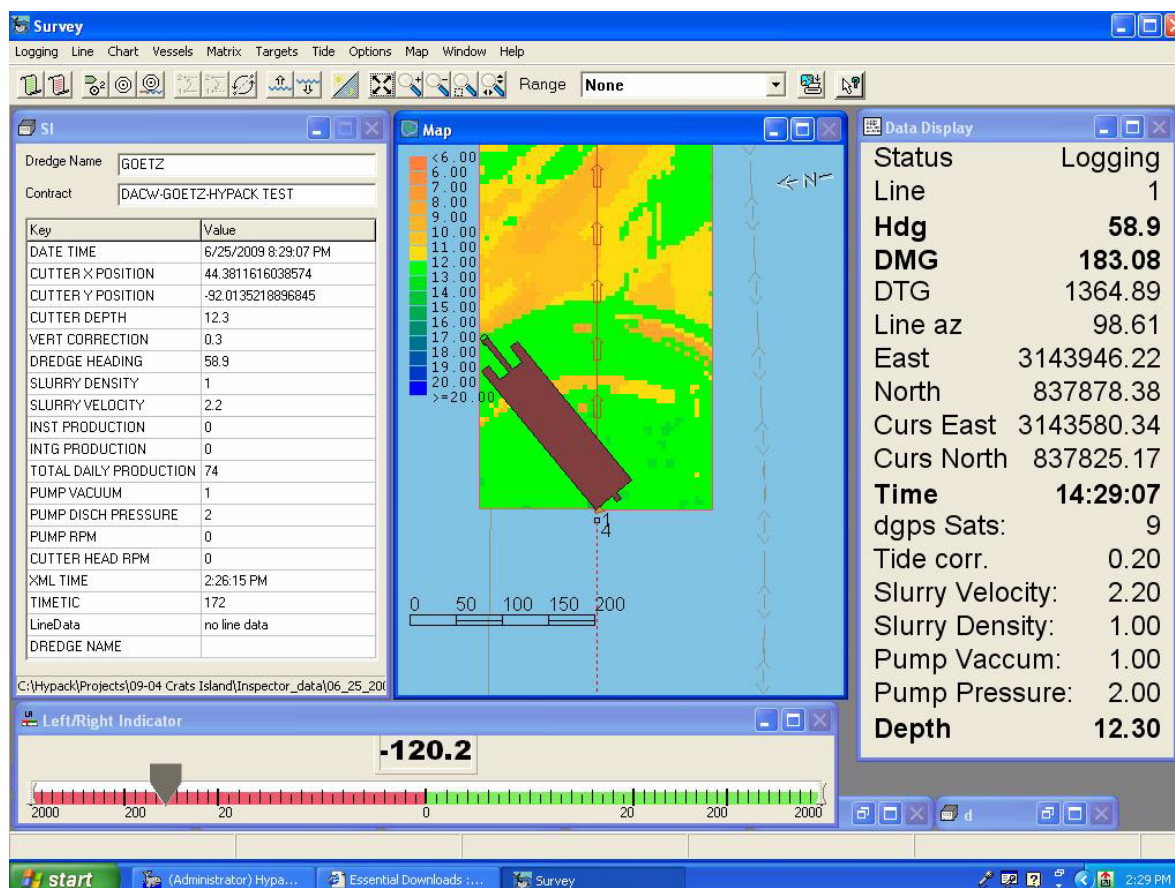
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The Silent Inspector (SI) Profile for pipeline dredges is undergoing finalization. The USACE Dredge Goetz was used as an implementation dredge for us to write and test the DREDGEPACK® specifications.

To better understand the output for the SI system, it is important to understand the data handing.

On each dredge a custom collector driver is required to send the pump rpm, density and pressure to shared memory. There is no easy way to implement a common driver for this function since each dredge will have different devices to measure the required data. The driver is installed on the cutter head mobile so its position and heading data can be obtained.

The SI_PIPELINE.DLL is a standard driver that receives the required data from shared memory and transmits it to the USACE SI.

FIGURE 1. *Silent Inspector on the Dredge Goetz*

This image is a screen capture from the dredge Goetz. The SI driver on the left is the driver that stores the SI XML data. A driver was written for the Goetz to read a serial string from the onboard DACS system.