



BUREAU OF ECONOMIC GEOLOGY

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## MONTHLY PROGRESS REPORT

**Date** April 6, 2011

**Reporting Period** March 2011

**Project Title** Locate and Acquire Digital Geophysical Wells Logs and Conduct Data Entry

**TWDB Contract No.** 1100011198

**Sub-grantee** Bureau of Economic Geology, The University of Texas at Austin

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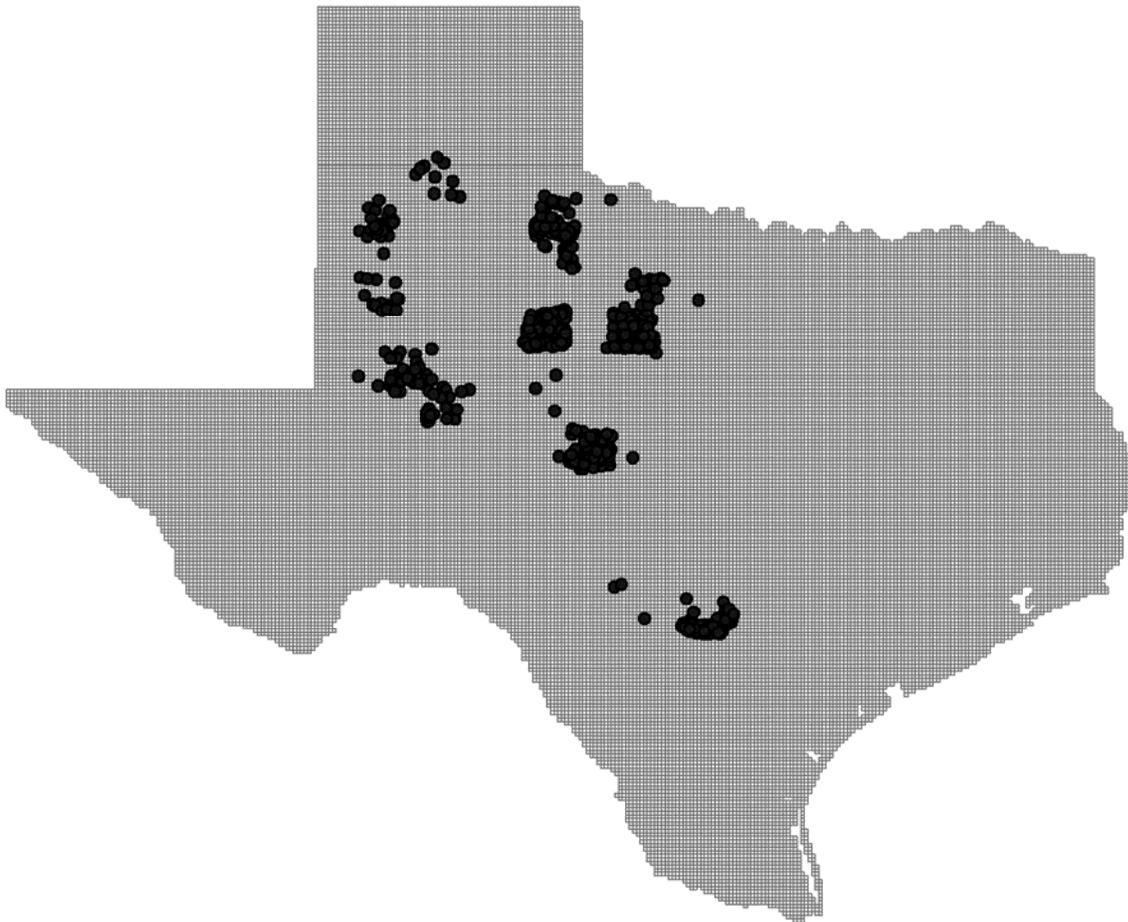
BEG staff continued to sort uncataloged geophysical logs into individual county boxes and to segregate “keeper” logs with resistivity or induction logs that reach within about 200 ft of the ground surface. At the end of March, our collection of previously unsorted logs has yielded 55,360 logs that are candidates for scanning. These logs are distributed across 247 of Texas’ 254 counties.

Progress was also made in the effort to identify API numbers for criteria-matching logs, determine locations, and scan logs from select counties as our efforts are beginning to shift from predominantly log sorting to identifying locations and API numbers, scanning, and data entry. At the end of the month, 2,396 logs have been scanned (at 300 dpi for color and 400 dpi for gray scale). The scanned logs are from Bandera, Bexar, Coke, Concho, Cottle, Fisher, Guadalupe, Hays, Jones, King, Martin, Shackelford, Taylor, Tom Green, Wheeler, and Williamson counties. A web application developed at BEG allows staff to enter limited log header information from individual logs, identify potential well matches from IGOR and a current version of the RRC well database, and populate matching fields with API and location information. Data entry has been completed for 742 of the scanned logs (Fig. 1). Work on a GIS-based method to update overall status for geographic coverage relative to the 2.5-minute grid cells continues as locating and scanning logs progresses. We are accomplishing this by joining the latitude and longitude of scanned and entered logs with 2.5-minute grid cells and displaying filled (or to be filled) grid cells in ArcGIS. Two of the log sorters are assisting with the effort to scan and locate logs to help increase the scanning, identification, and database entry rates.

Beginning April 1, we are shifting efforts from predominantly log sorting activities to predominantly identifying log locations and API numbers, scanning logs, and entering attribute data. Log sorting and highgrading activities will continue, but more effort will be expended on converting sorted logs into scans and data-base entries.

**Summary Table (through March 31, 2011)**

Logs that are scanning candidates	55,360
Counties having candidate logs	247
Scanned logs	2,396
Database entries	742



**Figure 1.** Map showing distribution of logs that meet TWDB criteria and have been located, scanned, and entered into the project data base through the end of March. Locations are superimposed on 2.5-minute quadrangle grid.