

**Final report for the NGGDP Program 09HQPA0009**  
**GRANT 01034120**  
**Arkansas Geological Survey**  
**July, 2010**

Inventory of the NF Williams Well Sample Library was implemented starting in August, 2009. With the \$7280.46 we received from the grant were able to hire a part-time employee to help with this project. Grant monies were not spent on supplies or equipment. The part-time employee hired for this grant is a student at Univ. of Arkansas at Little Rock and is less than 30 semester hours away from a degree in Geology was very instrumental in the completion of this part of the project. To date we have identified 3174 wells and have 31,347 entries in our database. A new Access database was created with help from the agencies project personnel and GIS group. Also, we have created templates for data input and for data searches. At the present time, we have completed approximately 95% of the core inventory. Sidewall core makes up the remaining portion of this task to be completed. We anticipate this task to be completed before September, 2010. We continue to input data such as lat/long, API number, permit number, any well log information (electric logs, drillers logs, lithologic logs) we can find, and if any analysis has been preformed on a sample in the core database as it is retrieved. At the present time, we have not started an inventory of the well cuttings we have in storage or started creating metadata for the core which has been inventoried.

During the inventory process we were able to identify boxes that were out of order on the shelf and boxes which need to be replaced. We have identified many boxes which need to be replaced. These boxes have been color coded in our database to signify that they need to be replaced or when they will need replacing so as to not cross contaminate samples. We moved and consolidated boxes creating space which is at a premium at our storage facility. We were also able to move core from the Arkansas Crater of Diamonds State Park drilling project in the mid 1990's into the main portion of our facility. This was major task. All of these boxes, approximately 1200, had to be replaced before putting back on the shelf. Labels and any identifying markings on the individual boxes were redone when necessary. This process was done prior to doing the inventory which was necessary to do the inventory itself. We still have core which has not be placed on the shelf because we do not have space at the present time in our facility.

We learned during the inventory process to have tight control of the database and to be consistent with transferring data between computers. Use computers with similar software versions; limit the number of people who worked the database, and to be consistent with data entry. We also tried to do away with all abbreviations in the database. A numbering system for the shelving units was developed to facilitate the storage and retrieval of individual core boxes. We are also able to track space on the shelf by doing this task. Any moving of boxes needs to be done before they are inventoried. If boxes are moved after they have been inventoried more time must be spent changing the database, so move the boxes first then inventory them. There is also a learning curve with personnel. The AGS Specialist in charge of the storage facility was and is familiar with the Access database which he created and is having doubts about a new database. But, searching the database has become more robust, so time and experience should help with issues regarding the technical lag.

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The policies for loaning out samples for examination and analysis were reviewed during this time. Several other states were consulted as to what their policies were. We are now taking everything on a case by case basis. I think the main point is that we must have a guarantee we get the results from any study done on the samples, whether they are destructive analysis or just picking formation tops. We will accept well samples only if the location of the well sampled is provided.

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