

NGGDPP Final Technical Report

Name of State Geologic Survey: Idaho Geological Survey

Award number: G10AP00105

Project Title: Data Preservation

Principal Investigator: Reed Lewis
Idaho Geological Survey
P.O. Box 443014
University of Idaho
Moscow, Idaho 83844-3014
Phone: (208) 885-7472
FAX: (208) 885-5826
reedl@uidaho.edu

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Reed S. Lewis
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ABSTRACT

The Idaho Geological Survey successfully completed the National Geologic and Geophysical Data Preservation Program (NGGDPP) award number G10AP00105 administered by the U.S. Geological Survey. For FY 2010, the Idaho Geological Survey cataloged four collections of “at risk” data and generated metadata for the National Catalog of Geological and Geophysical Data. These collections are: (1) 255 donated mineral exploration files from the Sunshine Mining Company; (2) largely unpublished whole-rock geochemical data for 169 rock samples that had poor location and incomplete lithologic information; (3) earthquake hazard records such as unpublished consultant reports on seismic hazards to infrastructure (e.g., dams); and (4) historic 35 mm slides of the 1980 Borah Peak earthquake features and damage. To address digital infrastructure needs at the IGS, we upgraded both our Mines and Prospects database and our Statewide Geologic Map database. Lastly, we migrated more data to the digital realm by: (1) scanning of 541 recently obtained oil and gas well logs and (2) scanning the historic slides of the 1980 Borah Peak earthquake. In addition to generating metadata for the NGGDPP National Catalog and upgrading our digital infrastructure, four Idaho Geological Survey publications (one Information Circular, one in the Digital Analytical Data (DAD) series, and new downloadable versions of our Mines and Prospects Database and our Statewide Geologic Map Database) will result from this work.

PRODUCTS/REPORTS

Work began August 1, 2011 and took one year to complete. The overall management of the project was under the direction of Reed Lewis. Victoria Mitchell indexed the Sunshine mineral property files and Reed Lewis assembled and proofed the Bennett/Hall geochemical data. Bill Phillips created the earthquake hazard database and Roy Breckenridge indexed the Borah Peak photos, which were scanned by Sherry Pixley. Dean Garwood and Loudon Stanford updated the Geologic Map Database and Vicki Mitchell and Loudon Stanford updated the Mines and Prospects Database. Dean Garwood oversaw the scanning and indexing of the oil and gas logs. Sherry Pixley assisted with organizing and scanning documents.

For the Mineral Property Files (Sunshine Mining Company data), the metadata delivered were:

1. The collection identification number.

2. The mine location number, which is a unique number for each site in the Mines and Prospects Database.
3. The latitude and longitude of the mine, corrected to 1:24,000 by comparison to the best available reference.
4. The name of the mine.
5. An explanation of what the site locations are and the information related to each site number.
6. The web address of the Mines and Prospects Database.

For the Bennett/Hall whole-rock geochemical data, the metadata delivered were:

1. The collection identification number.
2. The unique site number indicating where the rock sample was obtained.
3. The latitude and the longitude of the site.
4. The rock unit from which the sample was taken.
5. The rock name and the type of chemical data available for the sample.
6. The web address of the data set.
7. The date the sample was collected.

For the Earthquake Hazard reports, the metadata delivered were:

1. The collection identification number.
2. The name of the report.
3. Author of the report.
4. Extents (latitude and longitude) of the area of the report.
5. The year of the report.

For the Borah Peak earthquake photo collection, the metadata delivered were:

1. The collection identification number.
2. The identification number of the photograph.
3. The latitude and the longitude of the site where the photo was taken.
4. The feature shown in the photo.
5. The name of the photographer.
6. The date the photo was taken.

For the Geologic Map database, the metadata delivered were:

1. The collection identification number.
2. The name of the database.
3. A description of the data.
4. The web address of the in-progress statewide data set.
5. The date of this revision of the database.

For the Mines and Prospects database the metadata delivered were:

1. The collection identification number.
2. The name of the database.
3. A description of the data.
4. The web address of the data set.
5. The date of this revision of the database.

For the well log scanning project, the metadata delivered were:

1. The collection identification number.
2. The well number, which is a unique number for each well log in our well log index and is based on year drilled and number of wells drilled that year.
3. The latitude and longitude of the well.
4. The name of the well.
5. An explanation of what type of logs are in the collection.
6. The web addresses of the data sets.
7. The date of this revision to the data set.

All of the above metadata were provided to the National Catalog in flat files (*.csv file).

Four Idaho Geological Survey publications will result from this project:

1. A table of geochemical data for approximately 170 rock samples from central Idaho (to be released as a downloadable Excel file in our Digital Data series).
2. A revised Mines and Prospects database (an updated version of our Digital Data Series 1 publication) listing the properties for which we have a Mineral Property File.
3. A revised Geologic Map database (updated version of our Digital Geologic Map 7).
4. An Information Circular with viewable photos from the Borah Peak earthquake collection.