



## INVENTORY OF GEOLOGICAL AND GEOPHYSICAL DATA AND SAMPLES AT THE MONTANA BUREAU OF MINES AND GEOLOGY

U.S. Geological Survey (USGS) Award No. G11AP20198

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### FINAL TECHNICAL REPORT

Phase V

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Department of the Interior

U.S. Geological Survey

National Geological and Geophysical Data Preservation Program (NGGDPP)

## **Abstract**

The Montana Bureau of Mines and Geology (MBMG or Bureau), established in 1919, was purposely located in Butte, Montana, site of the world-class Butte mining district. A major part of the legislature's directive to the MBMG was to collect mining industry drawings, maps, reports, minerals, and models (reports), not only for Butte but across the State. As a result, the MBMG now possesses an expansive collection of mining-related data on properties throughout Montana. These reports contain irreplaceable information about Montana's resources; particularly those located in Butte, as all of the Butte underground mines and the Berkeley Pit are now flooded and inaccessible, underscoring the importance preserving information for the largest remaining copper deposit in the US.<sup>1</sup>

The MBMG's collections include historical mines and minerals data such as mine maps, drilling records and assays, geochemical and geophysical maps, and production records; water-well logs; oil and gas well logs; coal records; seismic data; a one-of-a-kind collection of thin sections, polished sections, and samples from the Butte underground mines (the Anaconda Collection); nearly a quarter-million aerial photographs spanning multiple decades that provide information on land change; and about 15,000 mineral specimens that are the foundation of Montana's only true mineral museum. MBMG collections are routinely used by local, state, and federal agencies, lawyers, small miners, mining companies, researchers, mining/engineering students, realtors, teachers as well as the general public.

To date, MBMG's participation in the NGGDPP included:

**Phase I:** Assessments of the estimated volume, quality, and accessibility of seven MBMG collections: Anaconda thin sections; mineral museum specimens; water well logs; seismic records; aerial photos, historic mining property files; and mining maps.

**Phase II:** Data Preservation Plan development, inventorying of selected MBMG data collections, creation of USGS-appropriate inventory metadata, and uploading the metadata to the USGS National Digital Catalog.

**Phase III:** The MBMG did not participate in Phase III.

**Phase IV:** The MBMG assessed information holdings at its branch office in Billings, Montana, continued metadata creation for the mining property and map collections, and began digitizing these collections with scanning equipment purchased with NGGDPP grant funds.

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<sup>1</sup> Long, K.R., DeYoung, J.H., Ludington, S.D., Database of significant deposits of gold, silver, copper, lead, and zinc in the United States, Part A: Database Description and Analysis; USGS Open-File Report 98-206A, 1998, 60 pp.

**Phase V:** During the current phase, MBMG goals were:

- 1) Continued metadata creation for the historic property files, mining maps, and water well logs;
- 2) Initial metadata creation for oil, gas, and coal records;
- 3) Periodic metadata uploads to the National Digital Catalog
- 4) Continued digitization (data migration) of historical mining property files and maps;
- 5) Data rescue from obsolete floppy disk and Bernoulli disk formats
- 6) Continued implementation of the data preservation plan; data preservation committee creation.

## Phase V Report

This technical report is submitted in fulfillment of the Phase V grant award requirements. Quarterly SF 272 financial reports have been submitted as required; the Final Financial and the SF 269 Final Financial Status reports have been submitted.

### 1. Metadata Creation

#### Historic property files and mining maps

The MBMG previously documented the condition of seven of its collections: the Anaconda thin sections; the mineral museum specimens; water well logs; seismic records; aerial photos, historic mining property files; and mining maps.

Metadata compilation was completed for the Anaconda thin sections in Phase 2 of the grant. The Mineral Museum specimen and the aerial photo collections were previously withdrawn from the grant (see table footnotes).

Collection	Status	Phase V	
		Metadata Committed	Metadata Completed
Water well logs		25% (13,258)	25% (13,258)
Anaconda collection- thin and polished sections	Completed	—	—
Mineral Museum mineral specimens;	Withdrawn <sup>1</sup>	—	—
Historic mining properties; (4,526 records)		100% (3,486 records)	100% <sup>2,3</sup> (3,486 records)
Historic mining engineering-related maps; (26,200 records)		15% (1,813 records)	23.8% (2,881 records)
Aerial photo collection (233,000 records)	Withdrawn <sup>4</sup>	—	—
Seismograms (137,200 records)	0% <sup>5</sup>		—

1 MBMG withdrew the Mineral Museum collection from National Digital Catalog participation due to security concerns.

2 The remaining files were either “General” information by county that included miscellaneous mining information not attached to a particular property, or contained insufficient data to create all the necessary metadata (i.e., latitude and longitude).

- 3 The records include metadata for 22 properties related to oil, coal and gas. A list of these properties is attached in Appendix A.
- 4 Aerial photos in the MBMG collection are duplicated on the USGS Earth Explorer site. Collection withdrawn per NGGDPP policy.
- 5 When the MBMG relocated to its new facility, the hard copy inventory of these records was misplaced. Rather than spend time recreating this infrequently used inventory, MBMG decided to devote time to the metadata creation for the collections that are frequently used (i.e., water well logs, historical mining property files, mining maps)

### Methodology

MBMG derived record descriptions for its collections from the actual hardcopy documents. Location information (latitude and longitude) was taken (in order of information availability) from file information, the USGS Geographical Names Information System, MBMG Abandoned Mine database (where onsite latitudes and longitudes were identified) or calculated (when township, range and section were available) using the Montana State University Environmental Statistics Group's *Graphical Locator* (<http://www.esg.montana.edu/gl/>). Water well log metadata were derived from the actual hardcopy drill logs.

Metadata fields for the mining collections include:

#### Collection: Historic Property Files

- Pf\_id: Unique, MBMG-generated, property file identification number
- Mils\_id: U.S. Bureau of Mines Mineral Industry Location System property identification number
- State: State of Montana
- County: Name of county in which property is located
- Mining\_district: The mining district (either organized or unorganized) in which the property is located. If a district name was not available, the field was described as "unspecified".
- Mining\_claim: Name of the mining claim at the time the information in the file was generated. Mine names may have changed over time. Alternate mine names are cross referenced in the Associated Names field.
- Associate\_name: Names of nearby mines; and/or alternate names for a specific mine.
- Township: The township in which the property is located.
- Range: The range in which the property is located.
- Section: The section in which the property is located.
- Latitude: The latitude at which the property is located.
- Longitude: The longitude at which the property is located.

#### Collection: Mining Map Files

- MF\_id: Unique, MBMG-generated, map file identification number
- State: State of Montana
- County: Name of county in which property is located

- District: The mining district (either organized or unorganized) in which the property described on the map is located. If a district name was not available, the field was described as “unspecified”.
- Claim\_Name: Name of the mining claim that is described on the map
- Latitude: The latitude at which the property is located.
- Longitude: The longitude at which the property is located.
- Map\_date: Map production date. If the map was a revision of an earlier version, the later date is used.
- Company: Name of the company, engineer or cartographer noted on the map.
- Comments: Miscellaneous information, such as map media, map scale, map characteristics, number of copies, and reference numbers indicated on the maps.

Collection: Water well logs

- GWIC\_Id: Unique, MBMG-generated, site record identification number;
- Site\_Name: Most recent owner/site/business name listed on the well log form;
- Site\_Identifier: Individual identifier for a site that is part of a group of sites;
- Latitude: Latitude of site in decimal degrees;
- Longitude: Longitude of site in decimal degrees;
- GeoMethod: Method used to determine the latitude and longitude;
- Datum: Horizontal reference datum for latitude and longitude values.
- LLScale: Map scale if a map was used to determine latitude and longitude;
- LLDate: Date that the currently reported latitude and longitude values were calculated;
- Altitude: Altitude of the ground surface at the drill site in feet above mean sea level;
- Method: Method used to determine altitude;
- Datum: Vertical reference datum for altitude values;
- AltDate: Date that the currently reported altitude values were calculated or determined;
- Site\_Type: Type of site (borehole, mine, pit, drainage ditch, etc.). Values for this field are controlled by a validation list.
- Township: Montana township in which the site is located;
- Range: Montana range in which the site is located;
- Section: Section in the reported township in which the site is located;
- County: Montana county in which the site is located;
- Basin: Drainage basin in which the site is located (validation list controlled);
- Addition: Addition or subdivision name, if provided, in which the site is located;
- Block: Block name or number if provided;
- Lot: Lot name or number if provided;
- Assessor Tract: Assessor’s tract if provided;
- Certificate of Survey: Certificate of survey identifier if provided;

- Parcel: Parcel name or number if provided;
- GeoCode: 17 digit identifier that links the Montana property tax database with the specific property on which the well was drilled;
- USGS Quad: Name of the USGS 7.5-minute Quadrangle map that the site is located on;
- Notes: Miscellaneous information about the site location.

## **2. Oil, gas, and coal records**

At the time that the Phase V proposal was written, an inventory assessment of information holdings at the MBMG's branch in Billings, Montana had not been completed. The assessment was completed in March, 2011 and included draft maps that were later revised and made part of formal reports; environmental assessments and monitoring reports on coal, oil and gas deposits in eastern Montana; reference publications; and a small aerial photo collection. The aerial photo collection has been inventoried and those data added to the existing MBMG aerial photo database. A database of the reports and reference materials (approximately 500 records) was compiled and shared with Billings' office personnel for use. Information about the collection was entered into the USGS online state assessment survey.

Coal-related property files and historical maps from the Billings office were transferred to the Butte office for indexing, preservation and archiving. Metadata was created for 40 coal-related properties; however, information for only 22 of those properties was uploaded to the National Digital Catalog because coordinate information was not available for the other properties.

## **3. Metadata Upload to the National Digital Catalog.**

Metadata for the collections noted above have been uploaded to the National Digital Catalog using an .xml format for the file transfer. Only records containing verified latitude and longitude locations were uploaded. Metadata for 2,881 mining and engineering maps and 3,486 property files were uploaded.

## **4. Data Migration**

The MBMG continued the conversion of mining property files and mining maps to digital formats.

### Methodology

Part time student workers assisted with document scanning. Originally, property file contents were scanned, modified to eliminate irregularities (crease lines, water stains, etc.) and saved as a single .pdf. Discussions with MBMG's database administrator led to modifying the process to facilitate customized online user searches and to eliminate possible redundancy or omissions created by merely adding new pages to previously scanned files. Instead, each page of every mining property file is being scanned and categorized as a specific type of document so that database searches can be customized by the user (e.g., searching only for assay or mine production information). Historic mining property files are scanned to .tif files at a 400 dpi

resolution. Documents are stored in grayscale format unless color information important to the document contents is present. The original scans are saved as separate .tif files, reviewed for presentability, and modified, as necessary. The modified scans are saved by document type (i.e., correspondence, reports, sketches, forms, etc.) or map type (geologic, assay, topographic, location, survey, cross section, long section, vertical section, etc.), first as .jpegs and finally as pdfs. The pdf files will be publicly served by the MBMG Mining Archives webpage upon its completion and implementation.

To date, MBMG has completed scans of more than 1,700 property files (containing over 14,000 pages of information) and 1,400 maps.

## **5. Data Rescue**

MBMG acquired several boxes of floppy disks and Bernoulli disks containing historical mining data. The appropriate computer hardware and software to retrieve the data from these media was not available internally. Using grant monies, a local company was hired and successfully retrieved 310 directories containing 2,925 files pertaining to mining holdings in the Jefferson County area. The holdings contain reports, maps, water quality analyses and correspondence about the Basin Creek, Lake Pegasus, Zortman, the Paupers' Dream, and the Sorenson patented claims. The files are saved in a variety of many legacy program formats including Word Perfect, Lotus, Quattro Pro, and Paradox. During the next year, the files will be converted or imported into modern software formats and indexed in the MBMG historical mining property and mining map databases. The potential creation of paper copies from the rescued files will be evaluated by the MBMG Data Preservation Committee.

## **6. Data Preservation Plan Implementation**

### MBMG Data Preservation Committee

In Phase II of the NGGDPP, the MBMG developed its Data Preservation Plan which prescribed creation of an advisory committee to provide general data preservation and collection use policy for MBMG. The committee was created in July, 2012 and met in August, 2012. Committee members included: Ann St. Clair, Montana Tech Library Director; Mitzi Rossillion, Butte Archives; Dave Frank, USGS Facility Manager/Outreach Coordinator, Spokane Office and Ted Antonioli, geologic consultant. The Montana Bureau of Mines and Geology was represented by: John Metesh, Assistant Director; Tom Patton, Chief, Research Division; Robin McCulloch, Staff Mining Engineer; Luke Buckley, Database Administrator; Nancy Favero, Information Systems Technician; Jeff Johnson, Computer Support Specialist; Peggy Delaney, NGGDPP Grant Principal Investigator. The meeting agenda, minutes and revised purpose statement are included in Appendix B.

Mining Archive webpage development is ongoing and preliminary webpage designs were reviewed by the committee which provided suggested revisions. Although annual meetings of the committee were originally proposed, committee members were enthusiastic about the data

preservation planning and implementation processes and, therefore, scheduled the next meeting for March of 2013.

## **Summary**

MBMG continues to recognize the immense value of historical mining, geology, hydrology, mineralogy, and seismic information and, in particular, the irreplaceable information and physical specimens from mines and areas that are no longer physically accessible. Current mineral commodity prices are high causing high demand for electronically delivered archived data; at the same time new data are becoming increasingly available for rescue and archiving as 'boomer-age' mineral resource professionals retire. The MBMG hopes to continue to expand its collections, collaborate with the USGS by contributing metadata about those collections to the National Digital Catalog, make the information available electronically to its customers via the MBMG website and educate the public about the availability of the information. These goals would not have been possible to pursue in a timely fashion without the financial support of the USGS NCGDPP program.

1. Appendix A. Oil, Gas and Coal-Related Properties; Metadata Created

<b><u>County</u></b>	<b><u>Property Name</u></b>	<b><u>Commodity</u></b>
Beaverhead	Absaloka	Coal
Beaverhead	Decker Coal	Coal
Beaverhead	Rosebud Tongue River	Coal
Beaverhead	Spring Creek	Coal
Blaine	Black Jack II	Coal
Broadwater	Hegg Coal	Coal
Carbon	Bearcreek	Coal
Carbon	Beartooth Coal	Coal
Carbon	Black Diamond	Coal
Carbon	Brophy No. 2	
Carbon	Carbon Series Pits	Coal
Carbon	Roadside	Coal
Carbon	Smith	Coal
Custer	Storm King	Coal
Dawson	Peuse	Coal
Deer Lodge	Dunn Coal Mine	Coal
Fergus	Giltedge Coal	Coal
Fergus	Swanson	Coal
Hill	Rocky Boy	Coal
Prairie	Coal Creek Strip Mine	Coal
Rosebud	Big Sky Mine	Coal
Rosebud	Rosebud No. 6	Coal

## 2. Appendix B. Directories of Rescued Data

Computer > DVD RW Drive (E:) Mining Data > 3.5 inch disks

File Edit View Tools Help

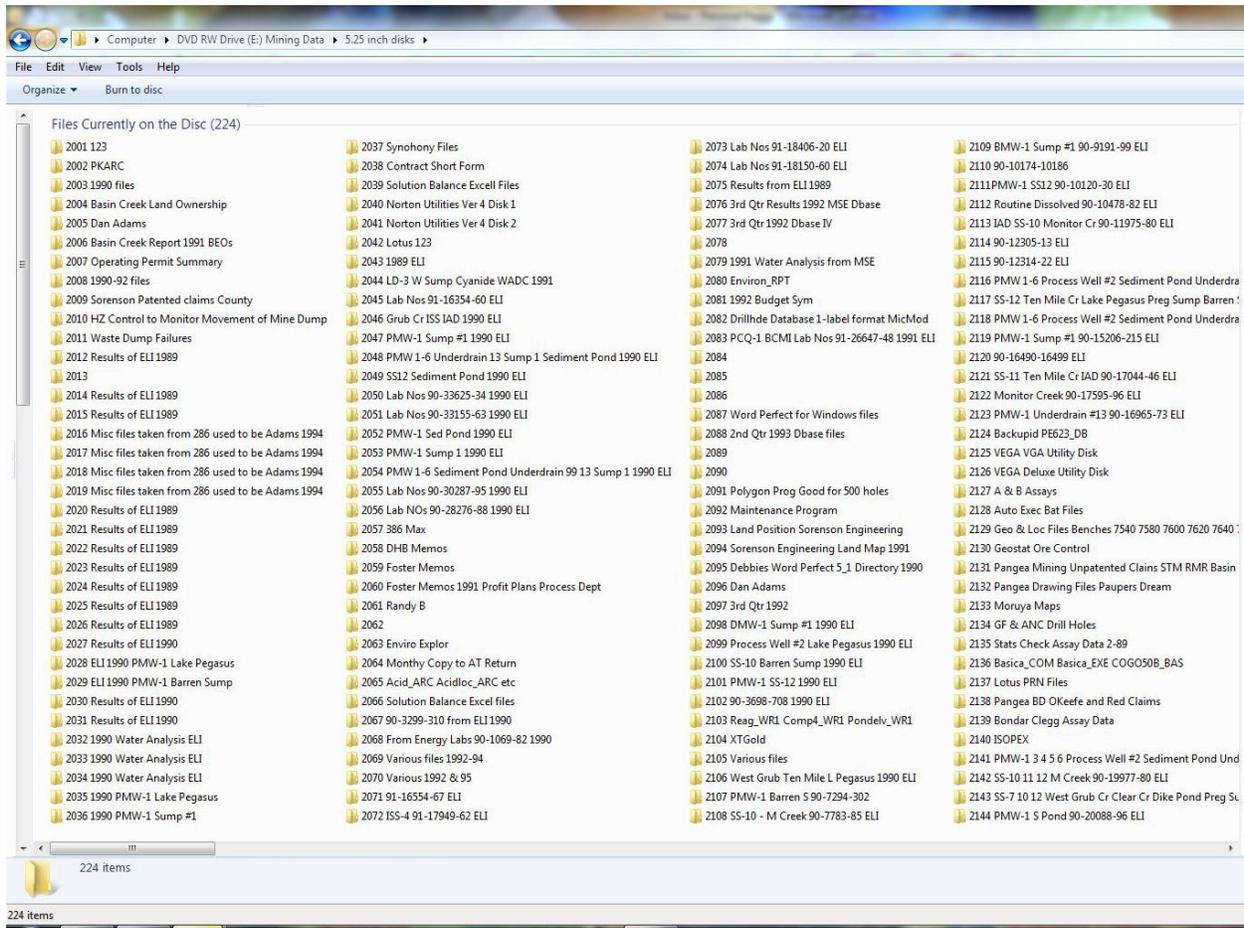
Organize Burn to disc

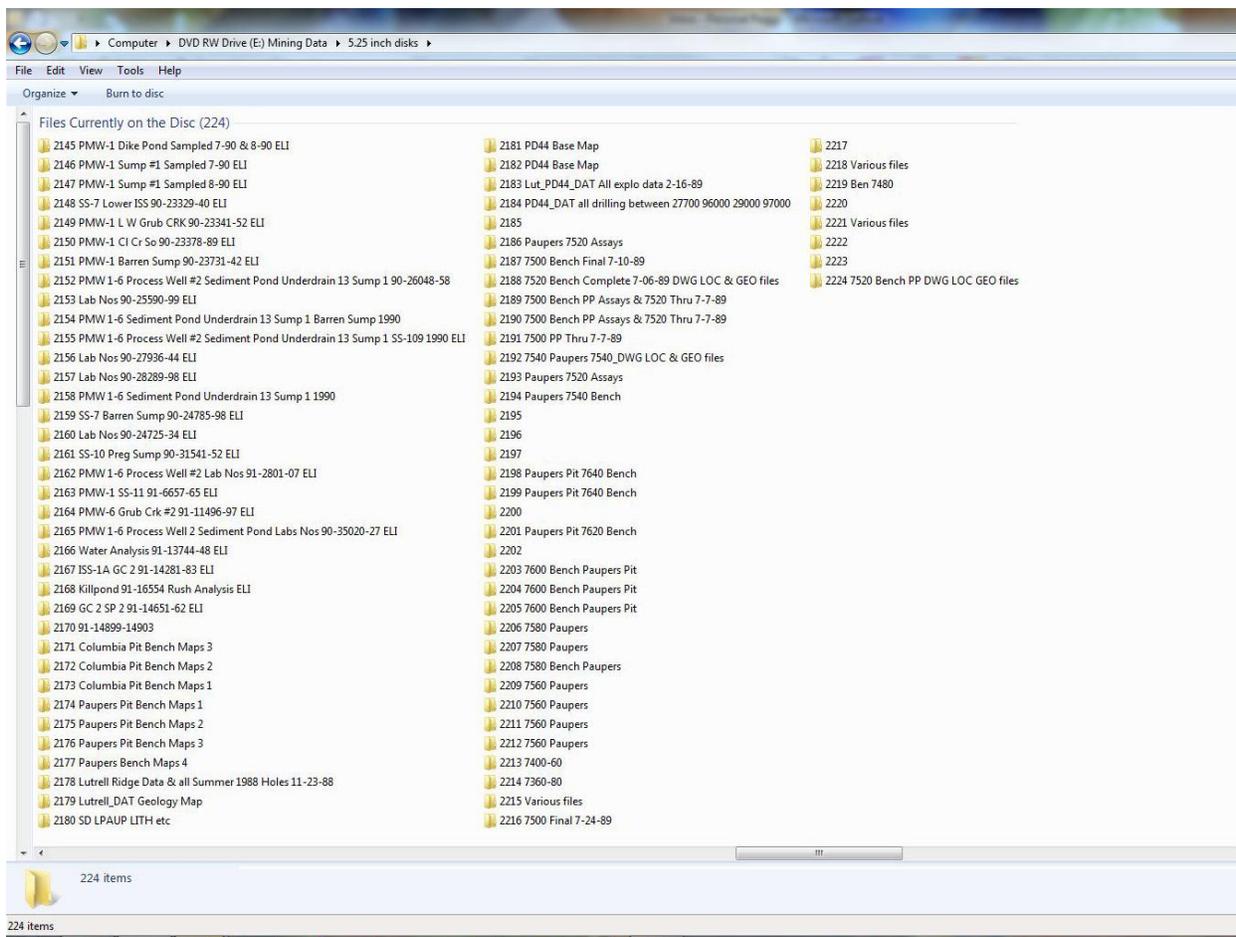
Files Currently on the Disc (84)

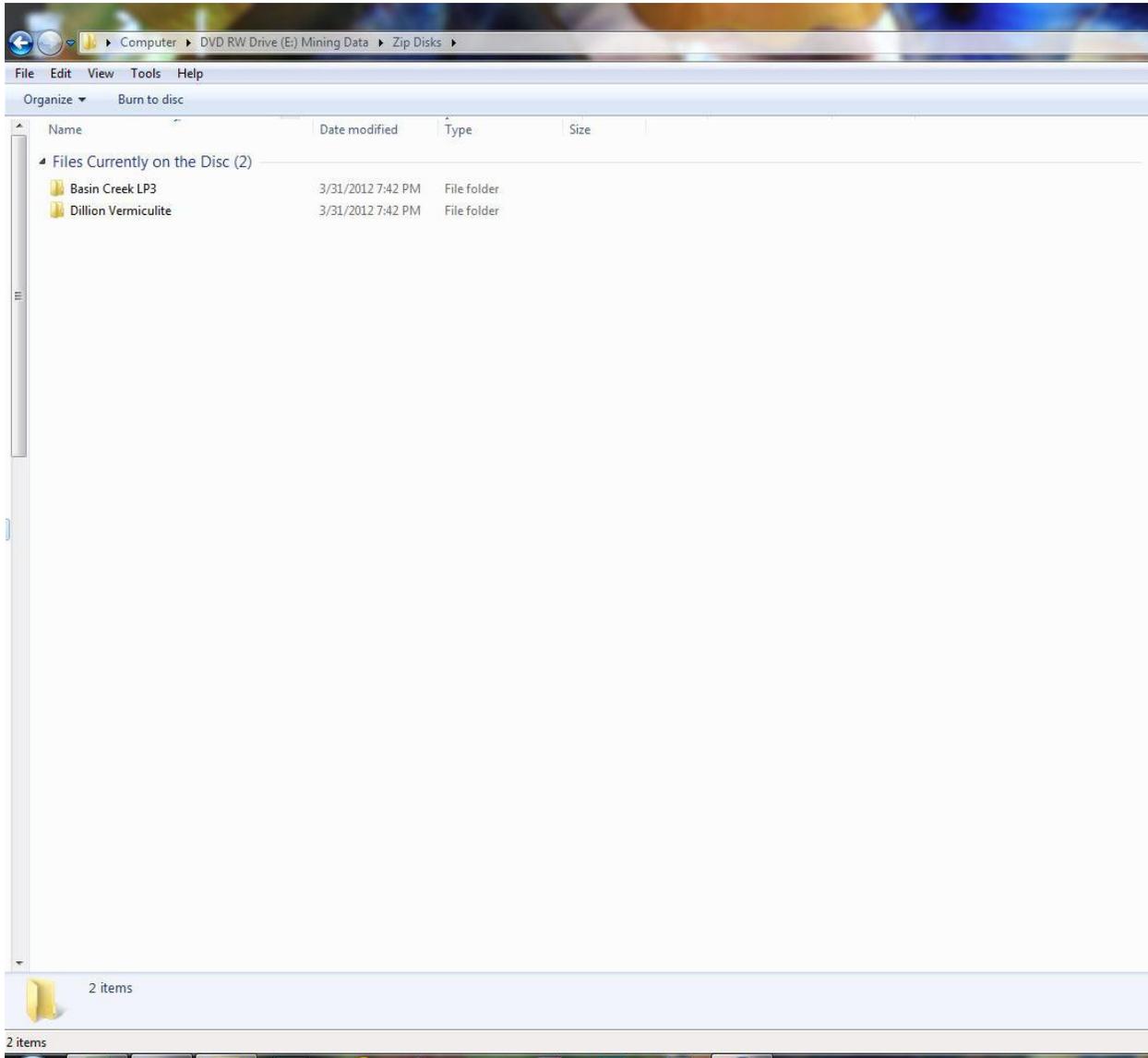
1001 1993-94 Basin Water Quality	1037 Leach Pad 1 Topo	1073 Paradox Runtime 4_0
1002 1994 Budget Reforcast & Manpower	1038 SiteBU_DWG	1074 Interim Disk
1003 1994 BCMI Water Quality	1039 BCCRDR95_DWG	1075 Extra
1004	1040 BCM Various files	1076 ZLLAD_ZIP Part of Multi Volume Set
1005 BCJT001 Dump94-95	1041 Topo96_DWG	1077 Fitz Graph & Materials Handling
1006	1042 8-1996 Waste Dump Survey	1078 Value Plan
1007	1043 RCL97 also Effluent Drawing Flowsheet	1079 Danielle & DBADSL_WP
1008 1995 DSL & WQB Correspondence	1044 King1997_DWG	1080 Various files
1009	1045	1081
1010 1996 June M & M Survey	1046 Basin97.DWG	1082 Closure EXECSUM_WPD & Various fi
1011 - Charles Card File 11-96	1047 6-1998 Topsoil Stockpile #1 Pre-stripping	1083 LP1Gold & LP1 RNS & other files
1012 3-99 Land Map Update	1048 Reclamation Map	1084 Storm Water Evaluation
1013 1994 Expenses & Job IDs	1049 Reclamation Status & Bond Review Map	
1014 1994 Basnew	1050 98 Site Feature Map	
1015 5-1995 Water Database Update	1051 Haul Rd & Drainage Map	
1016 Labspec Shortform and Resume	1052 Various files	
1017 POs SPC Memo Invoices Smithmet Mem	1053 Water Database thru 1999 Water Data 1999	
1018 5-1994 Revised Quarterly Report	1054 Bond Release Spreadsheet 3 month Spreadsheet	
1019 1998 rclpr_DWG	1055 1995 CAD Drawing & Cutoff	
1020 1995-96 Execsum Closure Spreadsheet Etc	1056 Basin Land Map	
1021 1996 Projects II Transfer	1057 Ammend to Previous Reclamation	
1022 1996 Projects II Transfer	1058 BCReca98_DWG	
1023 1996 Annual Operating Report	1059 BCMEPA_DWG USFSBID_WK4	
1024	1060 Reclamation Bond Map	
1025 Woodies Enviro Directory	1061 LPI as Built Secional View	
1026 Harvey Smith Mungas Equipment List	1062 LPI as Built Plan View	
1027 Harvey_498	1063 Reclamation completed in 98	
1028 Password mail	1064	
1029 Excell files 1993-95	1065 99asbit_DWG BCREC98_DWG	
1030 Excell files 1994-95 & Others	1066 Daily Report Format	
1031 Zortman Stuff	1067 LOM Budget for CR	
1032 Zortman LAD King Creek Biopass	1068Dan Adams Archize cc mail Closure Talk	
1033	1069 Comprehensive Mine Closure Plan	
1034	1070 Closure Summary Report	
1035	1071 Basin Creek Report Program Files	
1036 Aerial Topo of Waste Dump	1072 PKZIP PKUNZIP	

84 items selected  
[Show more details...](#)

84 items selected







3. Appendix C. MBMG Data Preservation Meeting Documents

**Montana Bureau of Mines and Geology (MBMG) Mining-Archive Data Preservation  
Advisory Committee**

**PURPOSE:** The Mining-Archive Data Preservation Advisory Committee will provide general recommendations to MBMG pertaining, but not limited to, the following mining-archive data preservation activities:

- a. Data retention and final settlement;
- b. Mining-archive webpage design;
- c. Opportunities for collaboration;
- d. Ideas for marketing and outreach
- e. Identification of new historical mining data to add to existing collection;
- f. Identification of new grant funding sources for continued archive development and management.

**MEETINGS:** The Advisory Committee will meet at least annually to review MBMG mining-archive data preservation activities, archive expansion and management plans, webpage development, education, and public outreach.

**STRUCTURE:** The Advisory Committee will be a standing committee, consisting of 5 non-MBMG members to be selected by the MBMG. . The number of committee members may be increased or decreased depending on the focus of the Committee's activities.

**VERSION:** Modified as of August 29, 2012

## **MBMG Mining-Archive Data Preservation Advisory Committee**

Tentative Agenda

Wednesday, August 29, 2012

Natural Resources Building, Room 302

10 A.M. – 3:00 P.M.

(Lunch will be served)

1. Introductions
2. Archives history; tour
3. Past development efforts; organization of holdings
4. Current inventory
5. National Geological and Geophysical Data Preservation Program (NGGDPP)
  - a. Scope of grant
  - b. Progress – equipment purchases, staffing
  - c. Review of draft Data Preservation and Disaster Recovery Plan
6. Digitization status
7. Webpage development
  - a. Mining archives database development
  - b. Webpage content
  - c. Customer requests to scan files and maps and realistic processing of requests.
  - d. Webpage review and suggestions
8. Outreach
9. Ongoing archive development:
  1. Collection solicitation
  2. Data retention and disposition policies
10. Goals for upcoming year: staffing, funding, outreach and education, webpage improvement, collection expansion
11. Set meeting for next year

**The Natural Resources Building is located at the west end of the Montana Tech campus. Visitor parking is located on the north side of the building. Room 302 is located in the west wing of the building. A map of the building location can be found at <http://www.mtech.edu/about/visit/map/>. The Natural Resources Building is designated as #9 on the map.**

**Data Preservation Committee**  
**Montana Bureau of Mines and Geology**  
**Meeting Notes**  
**Wednesday, August 29, 2012**

Present: Ann St. Clair, Montana Tech Library Director  
Mitzi Rossillion, Butte Archives  
Dave Frank, USGS, Facility Manager/Outreach Coordinator, Spokane Office

Montana Bureau of Mines and Geology:

John Metesh, Assistant Director  
Tom Patton, Chief, Research Division  
Robin McCulloch, Staff Mining Engineer  
Luke Buckley, Database Administrator  
Nancy Favero, Information Systems Technician  
Jeff Johnson, Computer Support Specialist  
Peggy Delaney, Research Assistant

Absent: Ted Antonioli, Geologic consultant

Peggy Delaney welcomed the committee members and thanked them for agreeing to serve. Members introduced themselves. A copy of Ted Antonioli's emailed comments was distributed to members as he was unable to attend the meeting.

Peggy gave a brief history of the creation and evolution of the mining archives as well as the other Montana Bureau of Mines and Geology (MBMG) information and specimen collections: the Mineral Museum specimens, the Anaconda Collection, historical seismographs, aerial photos, gas and oil well logs, and MBMG publications. Luke Buckley described the GroundWater Information Center (GWIC) water well records. The committee toured the MBMG section of the Natural Resources building focusing on areas where the MBMG collections are stored.

Peggy reviewed the MBMG's participation and funding levels for the last 5 years in the USGS-sponsored Geological and Geophysical Data Preservation Program. Program funding has supported purchase of scanning equipment and salaries to assess existing collections, create metadata and begin digitizing selected collections, begin development of an MBMG Mining Archives webpage, draft an MBMG Data Preservation and Disaster Recovery Plan, and create the Data Preservation Committee. Committee members will share their comments about the Plan with Peggy Delaney who will compile them for discussion at the next meeting.

The committee reviewed the draft purpose statement and suggested revisions. Peggy Delaney will email the revised draft purpose statement to members.

Peggy Delaney described how the mining archive holdings are organized as property files, maps, oil and gas well logs, and miscellaneous governmental, professional and mining reference publications. Peggy told the committee that 1,728 property files and 1,752 maps have been scanned to date. She also explained that some early database structures designed for the property file and map records needed to be re-designed to current MBMG standards. The redesign would reduce duplicate records in the SQL-server databases that will be linked to MBMG webpages. The webpages will allow Internet users to query the Mining Archives.

Nancy Favero presented some draft Mining Archives pages for the MBMG website. Committee suggestions on the content included:

- Use a bulleted listing of the archive holdings in the Archives narrative section;
- Create both Basic and Advanced Search screens:
  - Identify commonly used search fields for the Basic Search screen; add a key word search field;
  - Provide more search field options in the Advanced Search screen;
  - Add functionality to convert UTM coordinates to latitude and longitude;
  - Add a search field for commodity;
  - Include Range as a search field (Township and Section were visible, but Range was not);
  - Remove the miscellaneous and media attribute search fields.
- In the webpage Links section, add links to the following sites:
  - Office of Surface Mining
  - Montana Secretary of State Business Entity Search
  - MBMG Historical Mining District Map
- Add database analytics that will capture information about users who access the webpage and query the databases.
- Add an index of mining-related information that is available through different agencies and organizations.

Luke Buckley displayed some preliminary webpages that will allow users to query the Mining Archives. The demonstration showed the range of information being stored and how it will be available as the work progresses. The pages are very basic at this point allowing MBMG internal data entry and retrieval. Finished pages will be similar to those used in GWIC.

The Committee discussed possible outreach efforts for the MBMG Mining Archives, including presentations and poster sessions at association meetings (NW Mining Association, Montana Mining Association, Geological Society of America, etc.).

The committee members discussed how continued expansion of the Mining Archives collection can best be handled. Limitations to expansion include decreasing USGS grant funding, MBMG archival space, and funds for staff salaries. Some committee members suggested that, as many mining companies use the Mining Archive records, it might be possible to solicit donations from those companies and also mining-related foundations. A question arose about how MBMG/Montana Tech handles tax-deductible donations. Current understanding is that these donations are actually made to the Montana Tech Foundation which then produces a statement to the donor documenting the donation and a value. Committee members questioned MBMG's ownership of these donated items relative to their management and potential disposition, should the items be found to be duplicates or otherwise un-needed. MBMG staff will determine the ownership of items donated through the Montana Tech Foundation and report its findings to the committee at the next meeting. Item disposal policies of other organizations were briefly discussed; sometimes these items are made available to the public as a fundraising effort.

The Committee discussed the next meeting date and chose to meet in late March 2013.