ARIZONA GEOLOGICAL SURVEY MINING SITE – LEVERAGING 100 YEARS OF MINING REPORTS, MAPS, AND PHOTOGRAPHS FOR THE NEXT 100 YEARS

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Arizona Geological Survey

Geological Society of America, Vancouver, Canada, October 21, 2014
Arizona #2 mining state
Merger with Arizona Geological Survey
2011
Arizona Geological Survey
Mining Records Digitization

- 23 Special Collections:
  - ~13,500 folders
  - 836,553 pages of records
- 6 Photo Collections: ~7,400 images
- 1 Theses Collection: 371 papers
- 1 Map Collection: ~10,000 maps
A Sampling of Collections

- **ADMMR Mine Files**: 4,000 Arizona property files written by or collected by ADMMR staff
- **ADMMR Maps**: 5,000 Maps which may stand alone or are related to a property file
- **ADMMR Photographs**: 3,300 Photos from mine files, taken by staff or received as donation
- **Anderson Mine Collection**: Anderson Mine and Date Creek area information, 1960s - 1970s
- **Cambior Exploration USA Inc.**: Arizona mineral exploration files mostly for gold and copper
- **Grover Heinrichs Mining Collection**: Vice President of Heinrichs GEOEXploration Co., Tucson
- **James Doyle Sell Mining Collection**: SW Exploration Manager for ASARCO
- **John Kinnison Mining Collection**: Mineral Exploration Consultant during 1970s-1980s
- **Reconstruction Finance Corporation Arizona records**: In partnership with RFC, ADMMR performed analysis and review of applications for preliminary development loans
- **Richard Mieritz Mining Collection**: Worked at the Silver Bell for ASARCO during the late 1940s.
• original reports by field engineers
• promotional materials
• consulting engineer reports
• maps
• correspondence
• newspaper clippings
Mineral Data Preservation Project

23,000 Arizona documents
1/3 digital, online
4,000 maps coming
8 collections due in 4-6 months
Map Search (scroll down for results)

<table>
<thead>
<tr>
<th>Title</th>
<th>Place Keywords</th>
<th>Commodities</th>
</tr>
</thead>
<tbody>
<tr>
<td>mine names</td>
<td>counties, quads, alternate names</td>
<td>copper, molybdenum,</td>
</tr>
<tr>
<td></td>
<td></td>
<td>sand, stone...</td>
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</tbody>
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Map data ©2014 Google, INEGI. 100 km
USGIN
US Geoscience Information Network

Data integration framework
Open source, open access, interoperable
Nationwide federal-state-university partnership
Powering the National Geothermal Data System
User Interface
Arizona Natural Resources Review Council Decision Support System
powered by USGIN

NRRC PORTAL

NRRC DIGITAL CATALOG

Single Point of Contact

AZGEO GIS MAPS
ARIZONA DEPARTMENT OF WATER RESOURCES DATA, DOCUMENTS, AND MAPS
WRP GIS MAPS, PROJECT DATABASE

Federal Register