

Identification\_Information:

Citation:

Citation\_Information:

Originator: Ferguson, C.A.

Originator: Enders, M.S.

Publication\_Date: 20000800

Title: Digital geologic map and cross sections for the Clifton-Morenci area, Greenlee County, Arizona

Series\_Information:

Series\_Name: Arizona Geological Survey Digital Geologic Map

Issue\_Identification: DGM-01

Geospatial\_Data\_Presentation\_Form: Map

Publication\_Information:

Publication\_Place: Tucson, AZ

Publisher: Arizona Geological Survey

Description:

Abstract: This dataset includes three digital graphic images in Adobe PDF format showing the geology of the Clifton-Morenci area. These images were created through the cooperation of the Arizona Geological Survey and Phelps Dodge Morenci, Inc.

Purpose: These images are a visual representation of the geology of the Clifton-Morenci area for use by the general public as well as for use by Phelps Dodge Morenci, Inc., the source of funding for this project, for research and exploration needs.

Supplemental\_Information: 1 Adobe PDF file (3 plates), and other files.

Time\_Period\_of\_Content:

Time\_Period\_Information:

Single\_Date/Time:

Calendar\_Date: 20000800

Currentness\_Reference: condition of source GIS database

Status:

Progress: Complete

Maintenance\_and\_Update\_Frequency: Unknown

Spatial\_Domain:

Bounding\_Coordinates:

West\_Bounding\_Coordinate: -115.5042

East\_Bounding\_Coordinate: -115.2451

North\_Bounding\_Coordinate: 33.2533

South\_Bounding\_Coordinate: 32.9967

Keywords:

Theme:

Theme\_Keyword\_Thesaurus: None

Theme\_Keyword: digital cartography

Theme\_Keyword: copper

Theme\_Keyword: copper mining

Theme\_Keyword: tertiary stratigraphy

Theme\_Keyword: volcanic stratigraphy

Theme\_Keyword: Phelps Dodge

Place:

Place\_Keyword\_Thesaurus: None

Place\_Keyword: Clifton

Place\_Keyword: Morenci

Place\_Keyword: Greenlee County

Place\_Keyword: Arizona

Place\_Keyword: USA

Place\_Keyword: Copperplate Gulch

Place\_Keyword: Coronado Mountain

Place\_Keyword: Mitchell Peak  
Place\_Keyword: Clifton  
Place\_Keyword: Apache National Forest  
Place\_Keyword: Eagle Creek  
Place\_Keyword: San Francisco River  
Place\_Keyword: Phelps Dodge  
Access\_Constraints: none  
Use\_Constraints: Not to be reproduced for commercial purposes  
Point\_of\_Contact:  
  Contact\_Information:  
    Contact\_Organization\_Primary:  
      Contact\_Organization: Arizona Geological Survey  
      Contact\_Person: Stephen M. Richard  
    Contact\_Position: GIS Manager  
    Contact\_Address:  
      Address\_Type: mailing and physical address  
      Address: 416 W. Congress St., # 100  
      City: Tucson  
      State\_or\_Province: Arizona  
      Postal\_Code: 85701  
      Country: U.S.A.  
    Contact\_Voice\_Telephone: 520-770-3500  
    Contact\_Facsimile\_Telephone: 520-770-3505  
    Contact\_Electronic\_Mail\_Address: richard\_steve@pop.state.az.us  
    Hours\_of\_Service: 8:00 a.m to 5:00 p.m., M-F  
  Native\_Data\_Set\_Environment: Adobe PDF format files  
Data\_Quality\_Information:  
  Attribute\_Accuracy:  
    Attribute\_Accuracy\_Report: Although no formal tests were performed, all attribution was tested for accuracy against the paper source maps from which the source dataset was digitized by direct visual comparison between the source maps and the digital dataset.  
  Logical\_Consistency\_Report: n/a  
  Completeness\_Report: Data completeness reflects the content of the source database.  
  Lineage:  
    Source\_Information:  
      Source\_Citation:  
        Citation\_Information:  
          Originator: Ferguson, C.A.; Enders, M.S.; Orr, T.R.  
          Publication\_Date: 20000400  
          Title: Geologic spatial data for the Clifton-Morenci area, Greenlee County, Arizona  
          Geospatial\_Data\_Presentation\_Form: map  
        Publication\_Information:  
          Publication\_Place: Tucson, Arizona  
          Publisher: Arizona Geological Survey  
    Source\_Scale\_Denominator: 24000  
  Type\_of\_Source\_Media: GIS database  
  Source\_Time\_Period\_of\_Content:  
    Time\_Period\_Information:  
      Range\_of\_Dates/Times:  
        Beginning\_Date: 19980600  
        Ending\_Date: 19990800  
    Source\_Currentness\_Reference: publication date of compilation sources  
  Source\_Citation\_Abbreviation: DI-18

Source\_Contribution: GIS database used to create the layouts for the graphic images

Process\_Step:

Process\_Description:

1) Layouts for the map and cross sections were created in ArcView 3.2 as part of DI-18.

2) The layouts were printed to a postscript printer.

3) Adobe Acrobat Distiller was used to convert the postscript files to PDF files.

Source\_Used\_Citation\_Abbreviation: DI-18

Process\_Date: 20000800

Process\_Contact:

Contact\_Information:

Contact\_Person\_Primary:

Contact\_Organization: Arizona Geological Survey

Contact\_Person: Tim R. Orr

Contact\_Position: GIS Technician

Contact\_Address:

Address\_Type: mailing and physical address

Address: 416 W. Congress St., # 100

City: Tucson

State\_or\_Province: Arizona

Postal\_Code: 85701

Country: U.S.A.

Contact\_Voice\_Telephone: 520-770-3500

Contact\_Facsimile\_Telephone: 520-770-3505

Contact\_Electronic\_Mail\_Address: orr\_tim@pop.state.az.us

Hours\_of\_Service: 8:00 a.m to 5:00 p.m., M-F

Spatial\_Data\_Organization\_Information:

Direct\_Spatial\_Reference\_Method: Vector

Spatial\_Reference\_Information:

Horizontal\_Coordinate\_System\_Definition:

Planar:

Grid\_Coordinate\_System:

Grid\_Coordinate\_System\_Name: Universal Transverse Mercator

Universal\_Transverse\_Mercator:

UTM\_Zone\_Number: 12

Transverse\_Mercator:

Scale\_Factor\_at\_Central\_Meridian: 0.999600

Longitude\_of\_Central\_Meridian: -117.000000

Latitude\_of\_Projection\_Origin: 0.000000

False\_Easting: 500000.000000

False\_Northing: 0.000000

Planar\_Coordinate\_Information:

Planar\_Coordinate\_Encoding\_Method: Coordinate pair

Coordinate\_Representation:

Abscissa\_Resolution: 1

Ordinate\_Resolution: 1

Planar\_Distance\_Units: Meters

Geodetic\_Model:

Horizontal\_Datum\_Name: North American Datum of 1927

Ellipsoid\_Name: Clarke 1866

Semi-major\_Axis: 6378206.4000000

Denominator\_of\_Flattening\_Ratio: 294.98

Entity\_and\_Attribute\_Information:

Overview\_Description:

Entity\_and\_Attribute\_Overview:

This dataset includes three Adobe PDF files that represent:  
(1) a detailed geologic map of the Clifton-Morenci area in map view, and  
(2) two plates with detailed geologic cross sections of the Clifton-Morenci area in profile view.

Entity\_and\_Attribute\_Detail\_Citation: n/a

Distribution\_Information:

Distributor:

Contact\_Information:

Contact\_Organization\_Primary:

Contact\_Organization: Arizona Geological Survey

Contact\_Person: Stephen M. Richard

Contact\_Position: GIS Manager

Contact\_Address:

Address\_Type: mailing and physical address

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Contact\_Electronic\_Mail\_Address: richard\_steve@pop.state.az.us

Hours\_of\_Service: 8:00 a.m to 5:00 p.m., M-F

Resource\_Description:

AZGS DGM-01: Digital geologic map and cross sections for the Clifton-Morenci area, Greenlee County, Arizona

Includes OFR 00-07 in Adobe® PDF format. Also available with DI-18.

Distribution\_Liability: Although these data have been processed successfully on a computer system at the Arizona Geological Survey, no warranty expressed or implied is made regarding the accuracy or utility of the data on any other system or for general or scientific purposes, nor shall the act of distribution constitute any such warranty. This disclaimer applies both to individual use of the data and aggregate use with other data. It is strongly recommended that these data are directly acquired from the Arizona Geological Survey, and not indirectly through other sources which may have changed the data in some way. It is also strongly recommended that careful attention be paid to the contents of the metadata file associated with these data. The Arizona Geological Survey shall not be held liable for improper or incorrect use of the data described and/or contained herein.

Standard\_Order\_Process:

Digital\_Form:

Digital\_Transfer\_Information:

Format\_Name: Adobe PDF format

Digital\_Transfer\_Option:

Offline\_Option:

Offline\_Media: CD-ROM

Recording\_Format: Joliet

Compatibility\_Information: Windows 3.1/95/98/NT4.0/2000

Fees: \$15.00

Ordering\_Instructions:

To order, contact the AZGS via phone, (520) 770-3500, or fax, (520) 770-3505.

Metadata\_Reference\_Information:

Metadata\_Date: 20000800

Metadata\_Contact:

Contact\_Information:

Contact\_Organization\_Primary:

Contact\_Organization: Arizona Geological Survey  
Contact\_Person: Stephen M. Richard  
Contact\_Position: GIS Manager  
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Contact\_Electronic\_Mail\_Address: richard\_steve@pop.state.az.us  
Hours\_of\_Service: 8:00 a.m to 5:00 p.m., M-F  
Metadata\_Standard\_Name: FGDC CSDGM  
Metadata\_Standard\_Version: FGDC-STD-001-1998