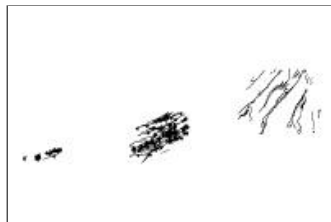


Significant Faults in the Seismically Active Areas of Virginia

File Geodatabase Feature Class



Tags

earthquake, fault, Virginia, society, geoscientificInformation, environment

Summary

This line feature class was developed to capture significant fault line data in the three seismically active areas of Virginia. These lines represent the most accurate mapping available as of the publication date.

Description

This feature class contains fault lines and includes information about the location, movement type, fault name (if known), and data source of each fault segment in the attribute table.

Credits

This digital data is the result of a three-year project funded by the Federal Emergency Management Agency (FEMA) through the Virginia Department of Emergency Management (VDEM) and by the Virginia Department of Mines, Minerals, and Energy (VDMME) via Grant Agreement Number HMGP-DR-4042-000-014 for \$548,969. The primary authors are Anne C. Witt, Wendy S. Kelly, and Matthew J. Heller from VDMME - Division of Geology and Mineral Resources (DGMR).

Martin Chapman and Bill Henika of Virginia Tech and Chuck Bailey of the College of William and Mary served as consultants on this project and assisted with project design, the collection of earthquake and fault information, and the review of the final deliverable products. Mike Enomoto, Marques Hatfield, William Swanger, Marcie Occhi, and Aaron Cross of DGMR completed specific tasks for the project. Amy Howard of VDEM served as grant coordinator.

Use limitations

The faults in this feature class are geologically very old. None of the faults in this feature class have been determined to be active. The presence of a fault at the surface does not necessarily indicate an increased risk for earthquakes. These lines should not be used to assess or assign seismic risk.

Extent

West -83.797031 **East** -77.164786
North 38.272082 **South** 36.522088

Scale Range

Maximum (zoomed in) 1:50,000
Minimum (zoomed out) 1:625,000

ArcGIS Metadata ►

Topics and Keywords ►

THEMES OR CATEGORIES OF THE RESOURCE society, geoscientificInformation, environment

* CONTENT TYPE Downloadable Data
 EXPORT TO FGDC CSDGM XML FORMAT AS RESOURCE DESCRIPTION No

PLACE KEYWORDS Virginia

THEME KEYWORDS earthquake, fault

THEME KEYWORDS society, geoscientificInformation, environment

THESAURUS ►

TITLE ISO 19115 Topic Categories

[Hide Thesaurus ▲](#)[Hide Topics and Keywords ▲](#)

Citation ►

TITLE Significant Faults in the Seismically Active Areas of Virginia**PUBLICATION DATE** 2017-03-31**PRESENTATION FORMATS** digital map**FGDC GEOSPATIAL PRESENTATION FORMAT** vector digital data**COLLECTION TITLE** GIS Fault Mapping of Virginia Seismic Zones[Hide Citation ▲](#)

Citation Contacts ►

RESPONSIBLE PARTY

INDIVIDUAL'S NAME Anne Carter Witt**ORGANIZATION'S NAME** Virginia Department of Mines, Minerals, and Energy**CONTACT'S POSITION** Geologist**CONTACT'S ROLE** originator

CONTACT INFORMATION ►

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TYPE both**DELIVERY POINT** 900 Natural Resources Drive, Suite 500**CITY** Charlottesville**ADMINISTRATIVE AREA** VA**POSTAL CODE** 22903**E-MAIL ADDRESS** anne.witt@dmme.virginia.gov[Hide Contact information ▲](#)[Hide Citation Contacts ▲](#)

Resource Details ►

DATASET LANGUAGES English (UNITED STATES)**DATASET CHARACTER SET** utf8 - 8 bit UCS Transfer Format**STATUS** completed**SPATIAL REPRESENTATION TYPE** vector*** PROCESSING ENVIRONMENT** Microsoft Windows 7 Version 6.1 (Build 7601) Service Pack 1; Esri ArcGIS 10.2.2.3552

CREDITS

This digital data is the result of a three-year project funded by the Federal Emergency Management Agency (FEMA) through the Virginia Department of Emergency Management (VDEM) and by the Virginia Department of Mines, Minerals, and Energy (VDMME) via Grant Agreement Number HMGP-DR-4042-000-014 for \$548,969. The primary authors are Anne C. Witt, Wendy S. Kelly, and Matthew J. Heller from VDMME - Division of Geology and Mineral Resources (DGMR).

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ARCGIS ITEM PROPERTIES

*** NAME** Significant_Faults*** LOCATION** file:///\\wdb01513

\\dgm\PROJECTS\MAPPING\Earthquake\Final_Deliverables\GIS_Data\Planners_Deliverables\Fault_Geodatabase_Planners.gdb

*** ACCESS PROTOCOL** Local Area Network[Hide Resource Details ▲](#)

Extents ►

EXTENT

DESCRIPTION

This dataset contains fault line data for the three seismically active areas of Virginia.

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

WEST LONGITUDE -83.797031
 EAST LONGITUDE -77.164786
 SOUTH LATITUDE 36.522088
 NORTH LATITUDE 38.272082

TEMPORAL EXTENT

BEGINNING DATE 2013-03-01 00:00:00
 ENDING DATE 2017-04-28 00:00:00

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching
 * WEST LONGITUDE -83.797031
 * EAST LONGITUDE -77.164786
 * NORTH LATITUDE 38.272082
 * SOUTH LATITUDE 36.522088
 * EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

* WEST LONGITUDE 477502.114942
 * EAST LONGITUDE 2383396.421912
 * SOUTH LATITUDE 110531.118242
 * NORTH LATITUDE 705912.448474
 * EXTENT CONTAINS THE RESOURCE Yes

[Hide Extents ▲](#)

Resource Points of Contact ►

POINT OF CONTACT

INDIVIDUAL'S NAME Anne Carter Witt
 ORGANIZATION'S NAME Virginia Department of Mines, Minerals, and Energy
 CONTACT'S POSITION Geologist
 CONTACT'S ROLE point of contact

CONTACT INFORMATION ►

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 ADMINISTRATIVE AREA VA
 POSTAL CODE 22903
 E-MAIL ADDRESS anne.witt@dmme.virginia.gov

[Hide Contact information ▲](#)

[Hide Resource Points of Contact ▲](#)

Resource Maintenance ►

RESOURCE MAINTENANCE

UPDATE FREQUENCY not planned

[Hide Resource Maintenance ▲](#)

Resource Constraints ►

LEGAL CONSTRAINTS

LIMITATIONS OF USE

All users of this electronic data set must read and fully comprehend the metadata prior to use. All electronic and/or hardcopy products (maps, data, and text, etc.) produced by the Virginia Department of Mines, Minerals and Energy - Division of Geology and Mineral Resources and are considered public information (unless otherwise noted) and may

be distributed or copied. When using, distributing or copying this data set as a source, the Originator must be acknowledged. These products are intended to serve for general planning purposes only and are provided on an "as is" basis. This data set shall not be used beyond the limits of the set source scale. This data set does not represent a survey document completed by a licensed land surveyor and should not be utilized as such.

CONSTRAINTS

LIMITATIONS OF USE

The faults in this feature class are geologically very old. None of the faults in this feature class have been determined to be active. The presence of a fault at the surface does not necessarily indicate an increased risk for earthquakes. These lines should not be used to assess or assign seismic risk.

[Hide Resource Constraints ▲](#)

Spatial Reference ►

ARCgis COORDINATE SYSTEM

```
* TYPE      Projected
* GEOGRAPHIC COORDINATE REFERENCE  GCS_North_American_1927
* PROJECTION  NAD_1927_StatePlane_Virginia_South_FIPS_4502
* COORDINATE REFERENCE DETAILS
  PROJECTED COORDINATE SYSTEM
    WELL-KNOWN IDENTIFIER  32047
    X ORIGIN  -120618000
    Y ORIGIN  -94806700
    XY SCALE  3048.0060960121914
    Z ORIGIN  -100000
    Z SCALE  10000
    M ORIGIN  -100000
    M SCALE  10000
    XY TOLERANCE  0.0032808333333333335
    Z TOLERANCE  0.001
    M TOLERANCE  0.001
    HIGH PRECISION  true
    LATEST WELL-KNOWN IDENTIFIER  32047
    WELL-KNOWN TEXT  PROJCS["NAD_1927_StatePlane_Virginia_South_FIPS_4502",GEOGCS
["GCS_North_American_1927",DATUM["D_North_American_1927",SPHEROID
["Clarke_1866",6378206.4,294.9786982]],PRIMEM["Greenwich",0.0],UNIT
["Degree",0.0174532925199433]],PROJECTION["Lambert_Conformal_Conic"],PARAMETER
["False_Easting",2000000.0],PARAMETER["False_Northing",0.0],PARAMETER["Central_Meridian",-78.5],PARAMETER
["Standard_Parallel_1",36.76666666666667],PARAMETER["Standard_Parallel_2",37.96666666666667],PARAMETER
["Latitude_Of_Origin",36.33333333333334],UNIT["Foot_US",0.3048006096012192],AUTHORITY["EPSG",32047]]
```

REFERENCE SYSTEM IDENTIFIER

```
* VALUE  32047
* CODESPACE  EPSG
* VERSION  8.2.6
```

[Hide Spatial Reference ▲](#)

Spatial Data Properties ►

VECTOR ►

```
* LEVEL OF TOPOLOGY FOR THIS DATASET  geometry only
```

GEOMETRIC OBJECTS

```
FEATURE CLASS NAME  Significant_Faults
* OBJECT TYPE  composite
* OBJECT COUNT  612
```

[Hide Vector ▲](#)

ARCgis FEATURE CLASS PROPERTIES ►

```
FEATURE CLASS NAME  Significant_Faults
* FEATURE TYPE  Simple
* GEOMETRY TYPE  Polyline
* HAS TOPOLOGY  FALSE
* FEATURE COUNT  612
* SPATIAL INDEX  TRUE
* LINEAR REFERENCING  FALSE
```

[Hide ArcGIS Feature Class Properties ▲](#)

[Hide Spatial Data Properties ▲](#)

Data Quality ►

DATA QUALITY REPORT - CONCEPTUAL CONSISTENCY ►

MEASURE DESCRIPTION

The fault data is as accurate as possible based on the map from which it was derived.

[Hide Data quality report - Conceptual consistency ▲](#)

DATA QUALITY REPORT - COMPLETENESS OMISSION ►

MEASURE DESCRIPTION

The fault data is as accurate as possible based on the map from which it was derived.

[Hide Data quality report - Completeness omission ▲](#)

[Hide Data Quality ▲](#)

Lineage ►

PROCESS STEP ►

WHEN THE PROCESS OCCURRED 2014-01-01 00:00:00

DESCRIPTION

Over 200 maps depicting fault data were identified in the three seismically active areas of Virginia. These maps included both published and unpublished data at many different map scales. Where digital data did not already exist, these maps were scanned, georeferenced, and the line work was digitized into the geodatabase.

PROCESS CONTACT

INDIVIDUAL'S NAME Anne Carter Witt
 ORGANIZATION'S NAME Virginia Department of Mines, Minerals, and Energy
 CONTACT'S POSITION Geologist
 CONTACT'S ROLE processor

CONTACT INFORMATION ►

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[Hide Contact information ▲](#)

[Hide Process step ▲](#)

PROCESS STEP ►

WHEN THE PROCESS OCCURRED 2015-01-01 00:00:00

DESCRIPTION

After the maps were digitized, line work was compared to identify the most accurate lines to include in the fault compilation feature class. Priority was given to lines mapped at 1:24,000 scale and recent mapping. Where linework did not match between maps, DGMR may have adjusted or added lines to create a more seamless product. Geologic field work was also completed to resolve fault mapping and "edge-match" issues. Such lines are identified in the attribute table.

PROCESS CONTACT

INDIVIDUAL'S NAME Anne Carter Witt
 ORGANIZATION'S NAME Virginia Department of Mines, Minerals, and Energy

CONTACT'S POSITION Geologist
CONTACT'S ROLE processor

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[Hide Contact information ▲](#)

[Hide Process step ▲](#)

PROCESS STEP ►

WHEN THE PROCESS OCCURRED 2017-01-01 00:00:00

DESCRIPTION

Next, linework that represented significant faults were moved into this feature class. Linework was simplified to merge multiple line segments into a seamless fault line. Lines were also symbolized based on fault type. The map source for merged line segments were preserved in the DataSouceID field.

PROCESS CONTACT

INDIVIDUAL'S NAME Anne Carter Witt
ORGANIZATION'S NAME Virginia Department of Mines, Minerals, and Energy
CONTACT'S POSITION Geologist
CONTACT'S ROLE processor

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[Hide Contact information ▲](#)

[Hide Process step ▲](#)

[Hide Lineage ▲](#)

Geoprocessing history ▼

Distribution ►

DISTRIBUTOR ►

CONTACT INFORMATION

INDIVIDUAL'S NAME Anne Carter Witt
ORGANIZATION'S NAME Virginia Department of Mines, Minerals, and Energy
CONTACT'S POSITION Geologist
CONTACT'S ROLE distributor

CONTACT INFORMATION ►

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[Hide Contact information ▲](#)

ORDERING PROCESS

TERMS AND FEES None

DATE OF AVAILABILITY 2017-03-31 00:00:00

INSTRUCTIONS

Data is available by internet download or by contacting the distributor directly.

[Hide Distributor ▲](#)

DISTRIBUTION FORMAT

* NAME File Geodatabase Feature Class

[Hide Distribution ▲](#)

Fields ►

DETAILS FOR OBJECT Significant_Faults ►

* TYPE Feature Class

* ROW COUNT 612

DEFINITION

A line feature class containing significant faults within the three seismically active areas of Virginia.

DEFINITION SOURCE

DMME

FIELD OBJECTID ►

* ALIAS OBJECTID

* DATA TYPE OID

* WIDTH 4

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Internal feature number.

DESCRIPTION SOURCE

Esri

DESCRIPTION OF VALUES

Sequential unique whole numbers that are automatically generated.

[Hide Field OBJECTID ▲](#)

FIELD SHAPE ►

* ALIAS Shape

* DATA TYPE Geometry

* WIDTH 0

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Feature geometry.

DESCRIPTION SOURCE

Esri

DESCRIPTION OF VALUES

Coordinates defining the features.

[Hide Field SHAPE ▲](#)

FIELD **Fault_ID** ▶

* ALIAS **Fault_ID**
 * DATA TYPE **Double**
 * WIDTH **8**
 * PRECISION **0**
 * SCALE **0**

FIELD DESCRIPTION

Unique ID number for each line segment.

DESCRIPTION SOURCE

DMME

DESCRIPTION OF VALUES

Unique ID number for each line segment.

Hide Field Fault_ID ▲

FIELD **Name** ▶

* ALIAS **Name**
 * DATA TYPE **String**
 * WIDTH **255**
 * PRECISION **0**
 * SCALE **0**

FIELD DESCRIPTION

The name of the fault on the published or unpublished map, if known.

DESCRIPTION SOURCE

DMME

DESCRIPTION OF VALUES

The name of the fault on the published or unpublished map, if known.

Hide Field Name ▲

FIELD **Seismic_Zone** ▶

* ALIAS **Seismic_Zone**
 * DATA TYPE **String**
 * WIDTH **255**
 * PRECISION **0**
 * SCALE **0**

FIELD DESCRIPTION

The seismic zone in which the fault is located.

DESCRIPTION SOURCE

DMME

DESCRIPTION OF VALUES

The seismic zone in which the fault is located.

Hide Field Seismic_Zone ▲

FIELD **Fault_Type1** ▶

* ALIAS **Fault_Type1**
 * DATA TYPE **String**
 * WIDTH **255**
 * PRECISION **0**
 * SCALE **0**

FIELD DESCRIPTION

The type of fault based on the movement along the fault.

DESCRIPTION SOURCE

DMME

LIST OF VALUES

VALUE **Fault**

DESCRIPTION A discrete surface or zone of discrete surfaces separating two rock masses across which one mass has slid past the other.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Jackson (1997)

VALUE High-angle fault

DESCRIPTION A fault with a dip greater than 45 degrees.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Jackson (1997)

VALUE Low-angle fault

DESCRIPTION A fault with a dip of 45 degrees or less.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Jackson (1997)

VALUE Normal fault

DESCRIPTION A fault in which the hanging wall appears to have moved downward relative to the footwall.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Jackson (1997)

VALUE High-angle normal fault

DESCRIPTION A fault in which the hanging wall appears to have moved downward relative to the footwall and the dip is greater than 45 degrees.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Jackson (1997)

VALUE Low-angle normal fault

DESCRIPTION A fault in which the hanging wall appears to have moved downward relative to the footwall and the dip is less than 45 degrees.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Jackson (1997)

VALUE Right-lateral normal fault

DESCRIPTION A fault in which the hanging wall appears to have moved downward relative to the footwall and the displacement along the fault appears to an observer, in plan view, to be displaced to the right.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Jackson (1997)

VALUE Left-lateral normal fault

DESCRIPTION A fault in which the hanging wall appears to have moved downward relative to the footwall and the displacement along the fault appears to an observer, in plan view, to be displaced to the left.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Jackson (1997)

VALUE Oblique slip fault

DESCRIPTION A fault on which the slip is intermediate in orientation between dip slip and strike slip.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Jackson (1997)

VALUE Oblique slip fault, right-lateral offset

DESCRIPTION A fault on which the slip is intermediate in orientation between dip slip and strike slip. The displacement along the fault appears to an observer, in plan view, to be displaced to the right.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Jackson (1997)

VALUE Oblique slip fault, left-lateral offset

DESCRIPTION A fault on which the slip is intermediate in orientation between dip slip and strike slip. The displacement along the fault appears to an observer, in plan view, to be displaced to the left.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Jackson (1997)

VALUE Reverse fault

DESCRIPTION A fault on which the hanging wall appears to have moved upward relative to the footwall.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Jackson (1997)

VALUE Right-lateral reverse fault

DESCRIPTION A fault on which the hanging wall appears to have moved upward relative to the footwall. Displacement along the fault also appears to an observer, in plan view, to be displaced to the right.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Jackson (1997)

VALUE Left-lateral reverse fault

DESCRIPTION A fault on which the hanging wall appears to have moved upward relative to the footwall. Displacement along the fault also appears to an observer, in plan view, to be displaced to the left.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Jackson (1997)

VALUE Strike slip fault

DESCRIPTION A fault on which the movement is parallel to the fault's strike.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Jackson (1997)

VALUE Strike slip fault, right-lateral offset

DESCRIPTION A fault on which the movement is parallel to the fault's strike. The displacement along the fault also appears to an observer, in plan view, to be displaced to the right.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Jackson (1997)

VALUE Strike slip fault, left-lateral offset

DESCRIPTION A fault on which the movement is parallel to the fault's strike. The displacement along the fault also appears

to an observer, in plan view, to be displaced to the left.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Jackson (1997)

VALUE Thrust fault

DESCRIPTION A fault with a dip of 45 degrees or less over much of its extent, on which the hanging wall appears to have moved upward relative to the footwall.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Jackson (1997)

DESCRIPTION OF VALUES

The type of fault based on the movement along the fault.

[Hide Field Fault_Type1 ▲](#)

FIELD Fault_Type2 ►

*ALIAS Fault_Type2

*DATA TYPE String

*WIDTH 255

*PRECISION 0

*SCALE 0

FIELD DESCRIPTION

The type of fault based on the movement along the fault. This field contains additional information about the fault if there is additional fault motion not captured by the Fault_Type1 field. For example, a fault may have evidence of modern normal motion, but had reverse motion in the past. In this case, the Fault_Type1 could be "Normal fault" and the Fault_Type2 would be "Reverse Fault".

DESCRIPTION SOURCE

DMME

LIST OF VALUES

VALUE Fault

DESCRIPTION A discrete surface or zone of discrete surfaces separating two rock masses across which one mass has slid past the other.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Jackson (1997)

VALUE High-angle fault

DESCRIPTION A fault with a dip greater than 45 degrees.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Jackson (1997)

VALUE Low-angle fault

DESCRIPTION A fault with a dip of 45 degrees or less.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Jackson (1997)

VALUE Normal fault

DESCRIPTION A fault in which the hanging wall appears to have moved downward relative to the footwall.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Jackson (1997)

VALUE High-angle normal fault

DESCRIPTION A fault in which the hanging wall appears to have moved downward relative to the footwall and the dip is greater than 45 degrees.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Jackson (1997)

VALUE Low-angle normal fault

DESCRIPTION A fault in which the hanging wall appears to have moved downward relative to the footwall and the dip is less than 45 degrees.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Jackson (1997)

VALUE Right-lateral normal fault

DESCRIPTION A fault in which the hanging wall appears to have moved downward relative to the footwall and the displacement along the fault appears to an observer, in plan view, to be displaced to the right.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Jackson (1997)

VALUE Left-lateral normal fault

DESCRIPTION A fault in which the hanging wall appears to have moved downward relative to the footwall and the displacement along the fault appears to an observer, in plan view, to be displaced to the left.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Jackson (1997)

VALUE Oblique slip fault

DESCRIPTION A fault on which the slip is intermediate in orientation between dip slip and strike slip.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Jackson (1997)

VALUE Oblique slip fault, right-lateral offset

DESCRIPTION A fault on which the slip is intermediate in orientation between dip slip and strike slip. The displacement

along the fault appears to an observer, in plan view, to be displaced to the right.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Jackson (1997)

VALUE Oblique slip fault, left-lateral offset

DESCRIPTION A fault on which the slip is intermediate in orientation between dip slip and strike slip. The displacement along the fault appears to an observer, in plan view, to be displaced to the left.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Jackson (1997)

VALUE Reverse fault

DESCRIPTION A fault on which the hanging wall appears to have moved upward relative to the footwall.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Jackson (1997)

VALUE Right-lateral reverse fault

DESCRIPTION A fault on which the hanging wall appears to have moved upward relative to the footwall. Displacement along the fault also appears to an observer, in plan view, to be displaced to the right.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Jackson (1997)

VALUE Left-lateral reverse fault

DESCRIPTION A fault on which the hanging wall appears to have moved upward relative to the footwall. Displacement along the fault also appears to an observer, in plan view, to be displaced to the left.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Jackson (1997)

VALUE Strike slip fault

DESCRIPTION A fault on which the movement is parallel to the fault's strike.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Jackson (1997)

VALUE Strike slip fault, right-lateral offset

DESCRIPTION A fault on which the movement is parallel to the fault's strike. The displacement along the fault also appears to an observer, in plan view, to be displaced to the right.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Jackson (1997)

VALUE Strike slip fault, left-lateral offset

DESCRIPTION A fault on which the movement is parallel to the fault's strike. The displacement along the fault also appears to an observer, in plan view, to be displaced to the left.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Jackson (1997)

VALUE Thrust fault

DESCRIPTION A fault with a dip of 45 degrees or less over much of its extent, on which the hanging wall appears to have moved upward relative to the footwall.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Jackson (1997)

DESCRIPTION OF VALUES

The type of fault based on the movement along the fault. This field contains additional information about the fault if there is additional fault motion not captured by the Fault_Type1 field.

Hide Field Fault_Type2 ▲

FIELD DataSourceID ►

*ALIAS DataSourceID

*DATA TYPE String

*WIDTH 50

*PRECISION 0

*SCALE 0

FIELD DESCRIPTION

A unique ID number that corresponds to an entry in the Data Sources table. Each entry is a reference to the map from which the fault data was derived.

DESCRIPTION SOURCE

DMME

DESCRIPTION OF VALUES

A unique ID number that corresponds to an entry in the Data Sources table.

Hide Field DataSourceID ▲

FIELD RuleID ►

*ALIAS RuleID

*DATA TYPE Integer

*WIDTH 4

* PRECISION 0
 * SCALE 0

FIELD DESCRIPTION

An integer field that stores a reference to the representation rules that code the symbology for a fault.

DESCRIPTION SOURCE

DMME

DESCRIPTION OF VALUES

An integer field that stores a reference to the representation rules that code the symbology for a fault.

Hide Field RuleID ▲

FIELD Override ►

* ALIAS Override
 * DATA TYPE Blob
 * WIDTH 0
 * PRECISION 0
 * SCALE 0

FIELD DESCRIPTION

A binary large object (BLOB) field that stores feature-specific overrides to the representation rules to the fault symbology.

DESCRIPTION SOURCE

DMME

DESCRIPTION OF VALUES

A binary large object (BLOB) field that stores feature-specific overrides to the representation rules to the fault symbology.

Hide Field Override ▲

FIELD SHAPE_Length ►

* ALIAS Shape_Length
 * DATA TYPE Double
 * WIDTH 8
 * PRECISION 0
 * SCALE 0

FIELD DESCRIPTION

Length of feature in internal units.

DESCRIPTION SOURCE

Esri

DESCRIPTION OF VALUES

Positive real numbers that are automatically generated.

Hide Field SHAPE_Length ▲

Hide Details for object Significant_Faults ▲

Hide Fields ▲

Metadata Details ►

METADATA LANGUAGE English (UNITED STATES)
 METADATA CHARACTER SET utf8 - 8 bit UCS Transfer Format

SCOPE OF THE DATA DESCRIBED BY THE METADATA dataset
 SCOPE NAME * dataset

* LAST UPDATE 2017-05-23

ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0

METADATA STYLE FGDC CSDGM Metadata
STANDARD OR PROFILE USED TO EDIT METADATA FGDC

CREATED IN ARCGIS FOR THE ITEM 2017-02-13 11:26:45
LAST MODIFIED IN ARCGIS FOR THE ITEM 2017-05-23 15:30:48

AUTOMATIC UPDATES
HAVE BEEN PERFORMED Yes
LAST UPDATE 2017-05-23 15:30:48

[Hide Metadata Details ▲](#)

Metadata Contacts ►

METADATA CONTACT
INDIVIDUAL'S NAME Anne Carter Witt
ORGANIZATION'S NAME Virginia Department of Mines, Minerals, and Energy
CONTACT'S POSITION Geologist
CONTACT'S ROLE point of contact

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[Hide Contact information ▲](#)

[Hide Metadata Contacts ▲](#)

Metadata Maintenance ►

MAINTENANCE
UPDATE FREQUENCY not planned

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