Geology Data Model Geodatabase Schema Diagram

NSW Implementation Model Version 1.2

Geological Survey of New South Wales

Geodatabase: C:\StateGeology\Data Model\Implementation Model\NSW Geology Implementation Geodatabase.mdb
Date modified: 12 December 2003

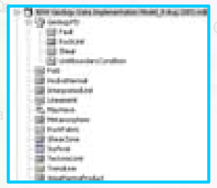
Geology Data Model Summary

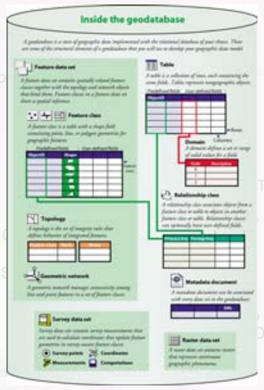
- Line feature class **Fault** — Place a description of this feature class or table here.
- Polygon feature class **RockUnit** — Place a description of this feature class or table here. *Subtypes are P2T, Quaternary, PrePermian, Interpreted*
- Line feature class **Shear** — Place a description of this feature class or table here.
- Line feature class **UnitBoundaryCondition** — Place a description of this feature class or table here. *Subtypes are Quaternary, P2T, Interpreted, PrePermian*

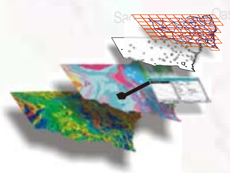
Geology Feature Dataset
Features in those classes may share geometries and form topological relationship

- Line feature class **Fold** — Place a description of this feature class or table here.
- Polygon feature class **Hydrothermal** — Place a description of this feature class or table here.
- Line feature class **Lineament** — Place a description of this feature class or table here.
- Polygon feature class **Metamorphism** — Place a description of this feature class or table here.
- Point feature class **RockFabric** — Place a description of this feature class or table here.
- Polygon feature class **ShearZone** — Place a description of this feature class or table here. *Subtypes are FaultZone, Brecciation*
- Polygon feature class **SurfaceAlteration** — Place a description of this feature class or table here.
- Table **Surficial** — Place a description of this feature class or table here.
- Polygon feature class **TectonicUnit** — Place a description of this feature class or table here.
- Line feature class **TrendLine** — Place a description of this feature class or table here.
- Relationship class **MayHave** — One to many

The Catalog view







Geology Data Model Details

Simple feature class RockUnit

Geometry: Polygon; Contains M values: No; Contains Z values: No

Type a description of this feature class or table in this placeholder text.

Field name	Data type	Allow nulls	Default value	Domain	Precision	Scale	Length	
OBJECTID	Object ID							
Shape	Geometry	Yes						
MetaDataID	String	Yes					50	Place a succinct description of the field in this text
Resolution	Long integer	Yes		DmResolution	0			Place a succinct description of the field in this text
Surface	Long integer	No		DmGeologyFeatureSurface	0			Place a succinct description of the field in this text
CreateDate	Date	Yes			0	0	8	Place a succinct description of the field in this text
ModifiedDate	Date	Yes			0	0	8	Place a succinct description of the field in this text
CaptureSource	Long integer	Yes		DmCaptureSource	0			Place a succinct description of the field in this text
CaptureMethod	Long integer	Yes		DmCaptureMethod	0			Place a succinct description of the field in this text
CaptureScale	Long integer	Yes		DmScale	0			Place a succinct description of the field in this text
PublishedScale	Long integer	Yes		DmScale	0			Place a succinct description of the field in this text
DMRCode	String	Yes					15	Place a succinct description of the field in this text
FeatureName	String	Yes					50	Place a succinct description of the field in this text
Description	String	Yes					250	Place a succinct description of the field in this text
GeologicalAge	Long integer	Yes		DmGeologicalAge	0			Place a succinct description of the field in this text
StratName	String	No					100	Place a succinct description of the field in this text
StrataNameValidation	Long integer	No		DmStrataNameValidation	0			Place a succinct description of the field in this text
GeologyUnitCode	Short integer	Yes			0			Place a succinct description of the field in this text
LetterSymbol	String	No					15	Place a succinct description of the field in this text
FormType	Long integer	Yes	400	DmFormType	0			Place a succinct description of the field in this text
TectonicUnit	Long integer	Yes		DmTectonicEvent	0			Place a succinct description of the field in this text
Orogeny	Long integer	Yes		DmOrogeny	0			Place a succinct description of the field in this text
RockType	Long integer	Yes		DmRockType	0			Place a succinct description of the field in this text
FormationProcess	String	Yes					250	Place a succinct description of the field in this text
SingDomLith	String	Yes					50	Place a succinct description of the field in this text
DominLith	String	Yes					100	Place a succinct description of the field in this text
SurfaceType	Long integer	No			0			Place a succinct description of the field in this text
MinAge	Long integer	Yes		DmGeologicalAge	0			Place a succinct description of the field in this text
MaxAge	Long integer	Yes		DmGeologicalAge	0			Place a succinct description of the field in this text
MinDepthToTop	Float	Yes			0	0		Place a succinct description of the field in this text
IgneousType	Long integer	Yes		DmIgneousType	0			Place a succinct description of the field in this text
IgneousClass	String	Yes					10	Place a succinct description of the field in this text
Mafic2Felsic	String	Yes					25	Place a succinct description of the field in this text
Calcareous	Long integer	Yes		DmBoolean	0			Place a succinct description of the field in this text
Plutonic	Long integer	Yes		DmBoolean	0			Place a succinct description of the field in this text
Granitoid	Long integer	Yes		DmBoolean	0			Place a succinct description of the field in this text
Intrusion	Long integer	Yes		DmBoolean	0			Place a succinct description of the field in this text
Volcanic	Long integer	Yes		DmBoolean	0			Place a succinct description of the field in this text
Shape_Length	Double	Yes			0	0		
Shape_Area	Double	Yes			0	0		

Subtypes of RockUnit

Subtype field: *SurfaceType*; Default subtype: *1*

List of defined default values and domains for subtypes in this class

Subtype Code	Subtype Description	Field name	Default value	Domain
2	P2T	Resolution		DmResolution
		Surface		DmGeologyFeatureSurface
		CaptureSource		DmCaptureSource
		CaptureMethod		DmCaptureMethod
		CaptureScale		DmScale
		PublishedScale		DmScale
		GeologicalAge		DmGeologicalAge
		StrataNameValidation		DmStrataNameValidation
		FormType	400	DmFormType
		TectonicUnit		DmTectonicEvent
		Orogeny		DmOrogeny
		RockType		DmRockType
		MinAge		DmGeologicalAge
		MaxAge		DmGeologicalAge
		IgneousType		DmIgneousType
		Calcareous		DmBoolean
		Plutonic		DmBoolean
		Granitoid		DmBoolean
		Intrusion		DmBoolean
		Volcanic		DmBoolean
1	Quaternary	Resolution		DmResolution
		Surface		DmGeologyFeatureSurface
		CaptureSource		DmCaptureSource
		CaptureMethod		DmCaptureMethod
		CaptureScale		DmScale
		PublishedScale		DmScale
		GeologicalAge		DmGeologicalAge
		StrataNameValidation		DmStrataNameValidation
		FormType	400	DmFormType
		TectonicUnit		DmTectonicEvent
		Orogeny		DmOrogeny
		RockType		DmRockType
		MinAge		DmGeologicalAge
		MaxAge		DmGeologicalAge
		IgneousType		DmIgneousType
		Calcareous		DmBoolean
		Plutonic		DmBoolean
		Granitoid		DmBoolean
		Intrusion		DmBoolean
		Volcanic		DmBoolean
3	PrePermian	Resolution		DmResolution
		Surface		DmGeologyFeatureSurface
		CaptureSource		DmCaptureSource
		CaptureMethod		DmCaptureMethod
		CaptureScale		DmScale
		PublishedScale		DmScale
		GeologicalAge		DmGeologicalAge
		StrataNameValidation		DmStrataNameValidation
		FormType	400	DmFormType
		TectonicUnit		DmTectonicEvent
		Orogeny		DmOrogeny
		RockType		DmRockType
		MinAge		DmGeologicalAge
		MaxAge		DmGeologicalAge
		IgneousType		DmIgneousType
		Calcareous		DmBoolean
		Plutonic		DmBoolean
		Granitoid		DmBoolean
		Intrusion		DmBoolean
		Volcanic		DmBoolean
4	Interpreted	Resolution		DmResolution
		Surface		DmGeologyFeatureSurface
		CaptureSource		DmCaptureSource
		CaptureMethod		DmCaptureMethod
		CaptureScale		DmScale
		PublishedScale		DmScale
		GeologicalAge		DmGeologicalAge
		StrataNameValidation		DmStrataNameValidation
		FormType	400	DmFormType
		TectonicUnit		DmTectonicEvent
		Orogeny		DmOrogeny
		RockType		DmRockType
		MinAge		DmGeologicalAge
		MaxAge		DmGeologicalAge
		IgneousType		DmIgneousType
		Calcareous		DmBoolean
		Plutonic		DmBoolean
		Granitoid		DmBoolean
		Intrusion		DmBoolean
		Volcanic		DmBoolean

Relationship class MayHave

Type: *Simple*; Cardinality: *One to one*; Notification: *None*
Forward label: *Landform*; Backward label: *RockUnit*

Origin feature class	Destination table
Name *RockUnit*	Name *Surficial*
Primary key *OBJECTID*	
Foreign key *RockUnitOID*	

No relationship rules defined.

Table Surficial

Type a description of this feature class or table in this placeholder text.

Field name	Data type	Allow nulls	Default value	Domain	Precision	Scale	Length	
OBJECTID	Object ID							
RockUnitOID	Long integer	Yes			0			Place a succinct description of the field in this text
LandformPattern	Long integer	Yes		DmLandformPattern	0			Place a succinct description of the field in this text
SurficialDepositSystem	Long integer	Yes		DmSurficialDepositSystem	0			Place a succinct description of the field in this text

Simple feature class UnitBoundaryCondition

Geometry: Polyline; Contains M values: No; Contains Z values: No

Type a description of this feature class or table in this placeholder text.

Field name	Data type	Allow nulls	Default value	Domain	Precision	Scale	Length	
OBJECTID	Object ID							
Shape	Geometry	Yes						
MetaDataID	String	Yes					50	Place a succinct description of the field in this text
Resolution	Long integer	Yes		DmResolution	0			Place a succinct description of the field in this text
Surface	Long integer	No		DmGeologyFeatureSurface	0			Place a succinct description of the field in this text
CreateDate	Date	Yes			0	0	8	Place a succinct description of the field in this text
ModifiedDate	Date	Yes			0	0	8	Place a succinct description of the field in this text
CaptureSource	Long integer	Yes		DmCaptureSource	0			Place a succinct description of the field in this text
CaptureMethod	Long integer	Yes		DmCaptureMethod	0			Place a succinct description of the field in this text
CaptureScale	Long integer	Yes		DmScale	0			Place a succinct description of the field in this text
PublishedScale	Long integer	Yes		DmScale	0			Place a succinct description of the field in this text
DMRCode	String	No					15	Place a succinct description of the field in this text
LinearAccuracy	Long integer	Yes		DmLinearAccuracy	0			Place a succinct description of the field in this text
ContactType	Long integer	Yes		DmContactType	0			Place a succinct description of the field in this text
SurfaceType	Long integer	No	1		0			Place a succinct description of the field in this text
Shape_Length	Double	Yes			0	0		

Subtypes of UnitBoundaryCondition

Subtype field: *SurfaceType*; Default subtype: *1*

List of defined default values and domains for subtypes in this class

Subtype Code	Subtype Description	Field name	Default value	Domain
1	Quaternary	Resolution		DmResolution
		Surface		DmGeologyFeatureSurface
		CaptureSource		DmCaptureSource
		CaptureMethod		DmCaptureMethod
		CaptureScale		DmScale
		PublishedScale		DmScale
		LinearAccuracy		DmLinearAccuracy
		ContactType		DmContactType
2	P2T	Resolution		DmResolution
		Surface		DmGeologyFeatureSurface
		CaptureSource		DmCaptureSource
		CaptureMethod		DmCaptureMethod
		CaptureScale		DmScale
		PublishedScale		DmScale
		LinearAccuracy		DmLinearAccuracy
		ContactType		DmContactType
4	Interpreted	Resolution		DmResolution
		Surface		DmGeologyFeatureSurface
		CaptureSource		DmCaptureSource
		CaptureMethod		DmCaptureMethod
		CaptureScale		DmScale
		PublishedScale		DmScale
		LinearAccuracy		DmLinearAccuracy
		ContactType		DmContactType
3	PrePermian	Resolution		DmResolution
		Surface		DmGeologyFeatureSurface
		CaptureSource		DmCaptureSource
		CaptureMethod		DmCaptureMethod
		CaptureScale		DmScale
		PublishedScale		DmScale
		LinearAccuracy		DmLinearAccuracy
		ContactType		DmContactType

Geology Feature Dataset

Simple feature class Hydrothermal

Geometry: Polygon; Contains M values: No; Contains Z values: No

Type a description of this feature class or table in this placeholder text.

Field name	Data type	Allow nulls	Default value	Domain	Precision	Scale	Length	
Shape	Geometry	Yes						
OBJECTID	Object ID							
MetaDataID	String	Yes					50	Place a succinct description of the field in this text
Resolution	Long integer	Yes		DmResolution	0			Place a succinct description of the field in this text
Surface	Long integer	No		DmGeologyFeatureSurface	0			Place a succinct description of the field in this text
CreateDate	Date	Yes			0	0	8	Place a succinct description of the field in this text
ModifiedDate	Date	Yes			0	0	8	Place a succinct description of the field in this text
CaptureSource	Long integer	Yes		DmCaptureSource	0			Place a succinct description of the field in this text
CaptureMethod	Long integer	Yes		DmCaptureMethod	0			Place a succinct description of the field in this text
CaptureScale	Long integer	Yes		DmScale	0			Place a succinct description of the field in this text
PublishedScale	Long integer	Yes		DmScale	0			Place a succinct description of the field in this text
DMRCode	String	No					15	Place a succinct description of the field in this text
FeatureName	String	Yes					50	Place a succinct description of the field in this text
Description	String	No					250	Place a succinct description of the field in this text
GeologicalAge	Long integer	Yes		DmGeologicalAge	0			Place a succinct description of the field in this text
StratName	String	No					100	Place a succinct description of the field in this text
StrataNameValidation	Long integer	No		DmStrataNameValidation	0			Place a succinct description of the field in this text
GeologyUnitCode	Short integer	Yes			0			Place a succinct description of the field in this text
LetterSymbol	String	No					15	Place a succinct description of the field in this text
TectonicEvent	Long integer	Yes		DmTectonicEvent	0			Place a succinct description of the field in this text
ThermalEvent	String	Yes					50	Place a succinct description of the field in this text
Orogeny	String	Yes					50	Place a succinct description of the field in this text
HydrothermalType	Long integer	Yes		DmHydrothermalType	0			Place a succinct description of the field in this text
Shape_Length	Double	Yes			0	0		
Shape_Area	Double	Yes			0	0		

Simple feature class Metamorphism

Geometry: Polygon; Contains M values: No; Contains Z values: No

Type a description of this feature class or table in this placeholder text.

Field name	Data type	Allow nulls	Default value	Domain	Precision	Scale	Length	
Shape	Geometry	Yes						
OBJECTID	Object ID							
MetaDataID	String	Yes					50	Place a succinct description of the field in this text
Resolution	Long integer	Yes		DmResolution	0			Place a succinct description of the field in this text
Surface	Long integer	No		DmGeologyFeatureSurface	0			Place a succinct description of the field in this text
CreateDate	Date	Yes			0	0	8	Place a succinct description of the field in this text
ModifiedDate	Date	Yes			0	0	8	Place a succinct description of the field in this text
CaptureSource	Long integer	Yes		DmCaptureSource	0			Place a succinct description of the field in this text
CaptureMethod	Long integer	Yes		DmCaptureMethod	0			Place a succinct description of the field in this text
CaptureScale	Long integer	Yes		DmScale	0			Place a succinct description of the field in this text
PublishedScale	Long integer	Yes		DmScale	0			Place a succinct description of the field in this text
DMRCode	String	No					15	Place a succinct description of the field in this text
FeatureName	String	Yes					50	Place a succinct description of the field in this text
Description	String	No					250	Place a succinct description of the field in this text
GeologicalAge	Long integer	Yes		DmGeologicalAge	0			Place a succinct description of the field in this text
StratName	String	No					100	Place a succinct description of the field in this text
StrataNameValidation	Long integer	No		DmStrataNameValidation	0			Place a succinct description of the field in this text
GeologyUnitCode	Short integer	Yes			0			Place a succinct description of the field in this text
LetterSymbol	String	No					15	Place a succinct description of the field in this text
TectonicEvent	Long integer	Yes		DmTectonicEvent	0			Place a succinct description of the field in this text
ThermalEvent	String	Yes					50	Place a succinct description of the field in this text
Orogeny	String	Yes					50	Place a succinct description of the field in this text
MetamorphismType	Long integer	Yes		DmMetamorphismType	0			Place a succinct description of the field in this text
MetamorphismGrade	Long integer	Yes		DmMetamorphismGrade	0			Place a succinct description of the field in this text
Shape_Length	Double	Yes			0	0		
Shape_Area	Double	Yes			0	0		

Simple feature class ShearZone

Geometry: Polygon; Contains M values: No; Contains Z values: No

Type a description of this feature class or table in this placeholder text.

Field name	Data type	Allow nulls	Default value	Domain	Precision	Scale	Length	
Shape	Geometry	Yes						
OBJECTID	Object ID							
MetaDataID	String	Yes					50	Place a succinct description of the field in this text
Resolution	Long integer	Yes		DmResolution	0			Place a succinct description of the field in this text
Surface	Long integer	No		DmGeologyFeatureSurface	0			Place a succinct description of the field in this text
CreateDate	Date	Yes			0	0	8	Place a succinct description of the field in this text
ModifiedDate	Date	Yes			0	0	8	Place a succinct description of the field in this text
CaptureSource	Long integer	Yes		DmCaptureSource	0			Place a succinct description of the field in this text
CaptureMethod	Long integer	Yes		DmCaptureMethod	0			Place a succinct description of the field in this text
CaptureScale	Long integer	Yes		DmScale	0			Place a succinct description of the field in this text
PublishedScale	Long integer	Yes		DmScale	0			Place a succinct description of the field in this text
DMRCode	String	No					15	Place a succinct description of the field in this text
FeatureName	String	Yes					50	Place a succinct description of the field in this text
Description	String	No					250	Place a succinct description of the field in this text
GeologicalAge	Long integer	Yes		DmGeologicalAge	0			Place a succinct description of the field in this text
StratName	String	No					100	Place a succinct description of the field in this text
StrataNameValidation	Long integer	No		DmStrataNameValidation	0			Place a succinct description of the field in this text
GeologyUnitCode	Short integer	Yes			0			Place a succinct description of the field in this text
LetterSymbol	String	No					15	Place a succinct description of the field in this text
TectonicEvent	Long integer	Yes		DmTectonicEvent	0			Place a succinct description of the field in this text
ThermalEvent	String	Yes					50	Place a succinct description of the field in this text
Orogeny	String	Yes					50	Place a succinct description of the field in this text
ShearType	Long integer	Yes	1	DmShearType	0			Place a succinct description of the field in this text
Shape_Length	Double	Yes			0	0		
Shape_Area	Double	Yes			0	0		

Subtypes of ShearZone

Subtype field: *ShearType*; Default subtype: *1*

List of defined default values and domains for subtypes in this class

Subtype Code	Subtype Description	Field name	Default value	Domain
1	FaultZone	Resolution		DmResolution
		Surface		DmGeologyFeatureSurface
		CaptureSource		DmCaptureSource
		CaptureMethod		DmCaptureMethod
		CaptureScale		DmScale
		PublishedScale		DmScale
		GeologicalAge		DmGeologicalAge
		StrataNameValidation		DmStrataNameValidation
		TectonicEvent		DmTectonicEvent
		ShearType	1	DmShearType
2	Brecciation	Resolution		DmResolution
		Surface		DmGeologyFeatureSurface
		CaptureSource		DmCaptureSource
		CaptureMethod		DmCaptureMethod
		CaptureScale		DmScale
		PublishedScale		DmScale
		GeologicalAge		DmGeologicalAge
		StrataNameValidation		DmStrataNameValidation
		TectonicEvent		DmTectonicEvent
		ShearType	2	DmShearType

Simple feature class SurfaceAlteration

Geometry: Polygon; Contains M values: No; Contains Z values: No

Type a description of this feature class or table in this placeholder text.

Field name	Data type	Allow nulls	Default value	Domain	Precision	Scale	Length	
OBJECTID	Object ID							
Shape	Geometry	Yes						
MetaDataID	String	Yes					50	Place a succinct description of the field in this text
Resolution	Long integer	Yes		DmResolution	0			Place a succinct description of the field in this text
Surface	Long integer	No		DmGeologyFeatureSurface	0			Place a succinct description of the field in this text
CreateDate	Date	Yes			0	0	8	Place a succinct description of the field in this text
ModifiedDate	Date	Yes			0	0	8	Place a succinct description of the field in this text
CaptureSource	Long integer	Yes		DmCaptureSource	0			Place a succinct description of the field in this text
CaptureMethod	Long integer	Yes		DmCaptureMethod	0			Place a succinct description of the field in this text
CaptureScale	Long integer	Yes		DmScale	0			Place a succinct description of the field in this text
PublishedScale	Long integer	Yes		DmScale	0			Place a succinct description of the field in this text
DMRCode	String	No					15	Place a succinct description of the field in this text
FeatureName	String	Yes					50	Place a succinct description of the field in this text
Description	String	No					250	Place a succinct description of the field in this text
GeologicalAge	Long integer	Yes		DmGeologicalAge	0			Place a succinct description of the field in this text
StratName	String	No					100	Place a succinct description of the field in this text
StrataNameValidation	Long integer	No		DmStrataNameValidation	0			Place a succinct description of the field in this text
GeologyUnitCode	Short integer	Yes			0			Place a succinct description of the field in this text
LetterSymbol	String	No					15	Place a succinct description of the field in this text
RegolithPattern	Long integer	Yes		DmRegolithPattern	0			Place a succinct description of the field in this text
PedogenicProductType	String	Yes					50	Place a succinct description of the field in this text
Shape_Length	Double	Yes			0	0		
Shape_Area	Double	Yes			0	0		

Alteration Units

Simple feature class TectonicUnit

Geometry: Polygon; Contains M values: No; Contains Z values: No

Type a description of this feature class or table in this placeholder text.

Field name	Data type	Allow nulls	Default value	Domain	Precision	Scale	Length	
Shape	Geometry	Yes						
OBJECTID	Object ID							
MetaDataID	String	Yes					50	Place a succinct description of the field in this text
Resolution	Long integer	Yes		DmResolution	0			Place a succinct description of the field in this text
Surface	Long integer	No		DmGeologyFeatureSurface	0			Place a succinct description of the field in this text
CreateDate	Date	Yes			0	0	8	Place a succinct description of the field in this text
ModifiedDate	Date	Yes			0	0	8	Place a succinct description of the field in this text
CaptureSource	Long integer	Yes		DmCaptureSource	0			Place a succinct description of the field in this text
CaptureMethod	Long integer	Yes		DmCaptureMethod	0			Place a succinct description of the field in this text
CaptureScale	Long integer	Yes		DmScale	0			Place a succinct description of the field in this text
PublishedScale	Long integer	Yes		DmScale	0			Place a succinct description of the field in this text
DMRCode	String	No					15	Place a succinct description of the field in this text
TectonicUnitName	Long integer	Yes		DmTectonicEvent	0			Place a succinct description of the field in this text
TectonicUnitType	String	Yes					50	Place a succinct description of the field in this text
Shape_Length	Double	Yes			0	0		
Shape_Area	Double	Yes			0	0		

Areas

Simple feature class Fault

Geometry: Polyline; Contains M values: No; Contains Z values: No

Type a description of this feature class or table in this placeholder text.

Field name	Data type	Allow nulls	Default value	Domain	Precision	Scale	Length	
Shape	Geometry	Yes						
OBJECTID	Object ID							
MetaDataID	String	Yes					50	Place a succinct description of the field in this text
Resolution	Long integer	Yes		DmResolution	0			Place a succinct description of the field in this text
Surface	Long integer	No		DmGeologyFeatureSurface	0			Place a succinct description of the field in this text
CreateDate	Date	Yes			0	0	8	Place a succinct description of the field in this text
ModifiedDate	Date	Yes			0	0	8	Place a succinct description of the field in this text
CaptureSource	Long integer	Yes		DmCaptureSource	0			Place a succinct description of the field in this text
CaptureMethod	Long integer	Yes		DmCaptureMethod	0			Place a succinct description of the field in this text
CaptureScale	Long integer	Yes		DmScale	0			Place a succinct description of the field in this text
PublishedScale	Long integer	Yes		DmScale	0			Place a succinct description of the field in this text
DMRCode	String	No					15	Place a succinct description of the field in this text
LinearAccuracy	Long integer	Yes		DmLinearAccuracy	0			Place a succinct description of the field in this text
StructureElementName	String	Yes					35	Place a succinct description of the field in this text
DeformationEvent	String	Yes					25	Place a succinct description of the field in this text
Azimuth	Long integer	Yes		DmStrikeRange	0			Place a succinct description of the field in this text
Inclination	Long integer	Yes		DmDipRange	0			Place a succinct description of the field in this text
InterpMethod	Long integer	Yes		DmCaptureMethod	0			Place a succinct description of the field in this text
FaultType	Long integer	Yes		DmFaultType	0			Place a succinct description of the field in this text
StructureSystem	String	Yes					25	Place a succinct description of the field in this text
Displacement	Short integer	Yes			0			Place a succinct description of the field in this text
Shape_Length	Double	Yes			0	0		

Simple feature class Shear

Geometry: Polyline; Contains M values: No; Contains Z values: No

Type a description of this feature class or table in this placeholder text.

Field name	Data type	Allow nulls	Default value	Domain	Precision	Scale	Length	
Shape	Geometry	Yes						
OBJECTID	Object ID							
MetaDataID	String	Yes					50	Place a succinct description of the field in this text
Resolution	Long integer	Yes		DmResolution	0			Place a succinct description of the field in this text
Surface	Long integer	No		DmGeologyFeatureSurface	0			Place a succinct description of the field in this text
CreateDate	Date	Yes			0	0	8	Place a succinct description of the field in this text
ModifiedDate	Date	Yes			0	0	8	Place a succinct description of the field in this text
CaptureSource	Long integer	Yes		DmCaptureSource	0			Place a succinct description of the field in this text
CaptureMethod	Long integer	Yes		DmCaptureMethod	0			Place a succinct description of the field in this text
CaptureScale	Long integer	Yes		DmScale	0			Place a succinct description of the field in this text
PublishedScale	Long integer	Yes		DmScale	0			Place a succinct description of the field in this text
DMRCode	String	No					15	Place a succinct description of the field in this text
LinearAccuracy	Long integer	Yes		DmLinearAccuracy	0			Place a succinct description of the field in this text
StructureElementName	String	Yes					35	Place a succinct description of the field in this text
DeformationEvent	String	Yes					25	Place a succinct description of the field in this text
Azimuth	Long integer	Yes		DmStrikeRange	0			Place a succinct description of the field in this text
Inclination	Long integer	Yes		DmDipRange	0			Place a succinct description of the field in this text
InterpMethod	Long integer	Yes		DmCaptureMethod	0			Place a succinct description of the field in this text
ShearType	Long integer	Yes		DmShearType	0			Place a succinct description of the field in this text
Shape_Length	Double	Yes			0	0		

Simple feature class Fold

Geometry: Polyline; Contains M values: No; Contains Z values: No

Type a description of this feature class or table in this placeholder text.

Field name	Data type	Allow nulls	Default value	Domain	Precision	Scale	Length	
Shape	Geometry	Yes						
OBJECTID	Object ID							
MetaDataID	String	Yes					50	Place a succinct description of the field in this text
Resolution	Long integer	Yes		DmResolution	0			Place a succinct description of the field in this text
Surface	Long integer	No		DmGeologyFeatureSurface	0			Place a succinct description of the field in this text
CreateDate	Date	Yes			0	0	8	Place a succinct description of the field in this text
ModifiedDate	Date	Yes			0	0	8	Place a succinct description of the field in this text
CaptureSource	Long integer	Yes		DmCaptureSource	0			Place a succinct description of the field in this text
CaptureMethod	Long integer	Yes		DmCaptureMethod	0			Place a succinct description of the field in this text
CaptureScale	Long integer	Yes		DmScale	0			Place a succinct description of the field in this text
PublishedScale	Long integer	Yes		DmScale	0			Place a succinct description of the field in this text
DMRCode	String	No					15	Place a succinct description of the field in this text
LinearAccuracy	Long integer	Yes		DmLinearAccuracy	0			Place a succinct description of the field in this text
StructureElementName	String	Yes					35	Place a succinct description of the field in this text
DeformationEvent	String	Yes					25	Place a succinct description of the field in this text
Azimuth	Long integer	Yes		DmStrikeRange	0			Place a succinct description of the field in this text
Inclination	Long integer	Yes		DmDipRange	0			Place a succinct description of the field in this text
InterpMethod	Long integer	Yes		DmCaptureMethod	0			Place a succinct description of the field in this text
FoldType	Long integer	Yes		DmFoldType	0			Place a succinct description of the field in this text
StructureSystem	String	Yes					50	Place a succinct description of the field in this text
Shape_Length	Double	Yes			0	0		

Structures

Simple feature class TrendLine

Geometry: Polyline; Contains M values: No; Contains Z values: No

Type a description of this feature class or table in this placeholder text.

Field name	Data type	Allow nulls	Default value	Domain	Precision	Scale	Length	
Shape	Geometry	Yes						
OBJECTID	Object ID							
MetaDataID	String	Yes					50	Place a succinct description of the field in this text
Resolution	Long integer	Yes		DmResolution	0			Place a succinct description of the field in this text
Surface	Long integer	No		DmGeologyFeatureSurface	0			Place a succinct description of the field in this text
CreateDate	Date	Yes			0	0	8	Place a succinct description of the field in this text
ModifiedDate	Date	Yes			0	0	8	Place a succinct description of the field in this text
CaptureSource	Long integer	Yes		DmCaptureSource	0			Place a succinct description of the field in this text
CaptureMethod	Long integer	Yes		DmCaptureMethod	0			Place a succinct description of the field in this text
CaptureScale	Long integer	Yes		DmScale	0			Place a succinct description of the field in this text
PublishedScale	Long integer	Yes		DmScale	0			Place a succinct description of the field in this text
DMRCode	String	No					15	Place a succinct description of the field in this text
TrendLineType	Long integer	Yes		DmTrendLineType	0			Place a succinct description of the field in this text
Shape_Length	Double	Yes			0	0		

Simple feature class RockFabric

Geometry: Point; Contains M values: No; Contains Z values: No

Type a description of this feature class or table in this placeholder text.

Field name	Data type	Allow nulls	Default value	Domain	Precision	Scale	Length	
Shape	Geometry	Yes						
OBJECTID	Object ID							
MetaDataID	String	Yes					50	
Resolution	Long integer	Yes		DmResolution	0			Place a succinct description of the field in this text
Surface	Long integer	No		DmGeologyFeatureSurface	0			Place a succinct description of the field in this text
CreateDate	Date	Yes			0	0	8	Place a succinct description of the field in this text
ModifiedDate	Date	Yes			0	0	8	Place a succinct description of the field in this text
CaptureSource	Long integer	Yes		DmCaptureSource	0			Place a succinct description of the field in this text
CaptureMethod	Long integer	Yes		DmCaptureMethod	0			Place a succinct description of the field in this text
CaptureScale	Long integer	Yes		DmScale	0			Place a succinct description of the field in this text
PublishedScale	Long integer	Yes		DmScale	0			Place a succinct description of the field in this text
DMRCode	String	No					15	Place a succinct description of the field in this text
RockFabricType	Long integer	Yes		DmRockFabricType	0			Place a succinct description of the field in this text
DeformationEvent	String	Yes					50	Place a succinct description of the field in this text
Azimuth	Long integer	Yes		DmStrikeRange	0			Place a succinct description of the field in this text
Inclination	Long integer	Yes		DmDipRange	0			Place a succinct description of the field in this text

Simple feature class Lineament

Geometry: Polyline; Contains M values: No; Contains Z values: No

Type a description of this feature class or table in this placeholder text.

Field name	Data type	Allow nulls	Default value	Domain	Precision	Scale	Length	
Shape	Geometry	Yes						
OBJECTID	Object ID							
MetaDataID	String	Yes					50	Place a succinct description of the field in this text
Resolution	Long integer	Yes		DmResolution	0			Place a succinct description of the field in this text
Surface	Long integer	No		DmGeologyFeatureSurface	0			Place a succinct description of the field in this text
CreateDate	Date	Yes			0	0	8	Place a succinct description of the field in this text
ModifiedDate	Date	Yes			0	0	8	Place a succinct description of the field in this text
CaptureSource	Long integer	Yes		DmCaptureSource	0			Place a succinct description of the field in this text
CaptureMethod	Long integer	Yes		DmCaptureMethod	0			Place a succinct description of the field in this text
CaptureScale	Long integer	Yes		DmScale	0			Place a succinct description of the field in this text
PublishedScale	Long integer	Yes		DmScale	0			Place a succinct description of the field in this text
DMRCode	String	No					15	Place a succinct description of the field in this text
LineamentFeatureName	String	Yes					50	Place a succinct description of the field in this text
Shape_Length	Double	Yes			0	0		

Lines

Geological Domains

Coded value domain DmBoolean — Description; Field type *Long integer*; Split policy *Default value*; Merge policy *Default value*

Code	Description
0	False
1	True

Coded value domain DmCaptureMethod — Description; Field type *Long integer*; Split policy *Duplicate*; Merge policy *Default value*

Code	Description
0	Undefined
1	Field checking
2	Scan / Vectorize / on screen editing
3	Aero Photo Interpretation
4	Stereo Image Trace
5	Satellite Imagery Interpretation
6	Registered Image Trace
7	Aeromagnetics Interpretation
8	Radiometrics Interpretation
9	Gravity Interpretation
10	Drilling Data
11	Seismic Survey
12	IP survey
13	Resistivity survey
14	Geophysics
15	GPS - Differential
16	GPS - Non corrected
17	GPS - with estimated correction
18	GPS - Mobile
19	Table Digitisation
20	Survey Controlled

Coded value domain DmCaptureSource — Description; Field type *Long integer*; Split policy *Duplicate*; Merge policy *Default value*

Code	Description
0	Undefined
1	Regional mapping
2	Ad hoc editing
3	Resources and Conservation Assessment Council (RACAC)
4	Broken Hill Exploration Initiative (BHEI)
5	External source - Geoscience Australia

Coded value domain DmContactType — Description; Field type *Long integer*; Split policy *Default value*; Merge policy *Default value*

Code	Description
0	unknown
1	conformal
2	fault
3	intrusive
4	sediment facies
5	unconformity
6	unconformity - angular
7	disconformity
8	transitional
9	water body edge
10	invisible line
11	state boundary
12	map edge
13	miscellaneous
20	dyke
21	dyke or vein
22	marker beds, marker bends (bedding)
23	shear zone
24	sill

Range domain DmDipRange — Description; Field type *Long integer*; Split policy *Default value*; Merge policy *Default value*

Minimum value	Maximum value
0	90

Coded value domain DmFaultType — Description; Field type *Long integer*; Split policy *Default value*; Merge policy *Default value*

Code	Description
0	Unknown
1	Normal
2	Thrust
3	Reverse
4	Strike-slip
5	Extension
6	Transpression
7	Restraining bend
8	Compression
9	Transtension
10	Releasing bend
11	Oblique
12	Decollment
13	Shear zone

Coded value domain DmFaultZoneType — Description; Field type *Long integer*; Split policy *Default value*; Merge policy *Default value*

Code	Description
1	Normal system
2	Thrust system
3	Strike-slip system
4	Parallel array
5	Anastamosing array
6	en echelon array
7	Relay array
8	Conjugate array
9	Random array

Coded value domain DmFoldType — Description; Field type *Long integer*; Split policy *Default value*; Merge policy *Default value*

Code	Description
0	unspecified
1	anticline
2	syncline
3	overturned anticline
4	overturned syncline
5	plunge
6	upright
7	recumbent
8	en echelon
9	axial surface
10	hinge
11	kink plane
12	isoclinal
13	axial trace
14	kink
15	tight

Coded value domain DmFormType — Description; Field type *Long integer*; Split policy *Default value*; Merge policy *Default value*

Code	Description
400	Dyke
401	Vein
402	Markerbeds
403	Short
404	Coal seam
405	Sill

Coded value domain DmGeologicalAge — Description; Field type *Long integer*; Split policy *Default value*; Merge policy *Default value*

Code	Description
10	Quaternary
20	Tertiary
30	Cretaceous
40	Jurassic
50	Triassic
60	Permian
70	Carboniferous
80	Devonian
90	Silurian
100	Ordovician
110	Cambrian
120	Neoproterozoic
130	Cryogenian
140	Tonian
150	Stenian
160	Ectasian
170	Calymmian
180	Statherian
190	Orosirian
200	Rhyacian
210	Siderian
220	Archaean

Coded value domain DmGeologyFeatureSurface — Description; Field type *Long integer*; Split policy *Default value*; Merge policy *Default value*

Code	Description
1	Quaternary
2	P2T
3	PrePermian
4	Interpreted

Coded value domain DmHydrothermalType — Description; Field type *Long integer*; Split policy *Default value*; Merge policy *Default value*

Code	Description
1	Surface water
2	Ground water
3	Metamorphic water
4	Magmatic fluid

Coded value domain DmIgneousType — Description; Field type *Long integer*; Split policy *Default value*; Merge policy *Default value*

Code	Description
1	I-type
2	S-type
3	M-type
4	A-type
5	unassigned
6	I?-type
7	A?-type

Coded value domain DmLandformPattern — Description; Field type *Long integer*; Split policy *Default value*; Merge policy *Default value*

Code	Description
1	alluvial landform
2	alluvial plain
3	alluvial swamp
4	sheet-flood fan
5	depositional plain
6	sand plain
7	erosional plain
8	erosional rise
9	erosional low hill
10	erosional hill

Coded value domain DmLinearAccuracy — Description; Field type *Long integer*; Split policy *Default value*; Merge policy *Default value*

Code	Description
0	Unknown
1	Accurate
2	Approximate
3	Inferred
4	Concealed
5	Inferred, concealed

Coded value domain DmMetamorphismGrade — Description; Field type *Long integer*; Split policy *Default value*; Merge policy *Default value*

Code	Description
0	caly carbonate zrolite
1	low grade greenschist
2	prehnite pumpellyite facies
3	biotite or actinolite
4	pale brown hornblende or limited andalusite
5	abundant andalusite, cordierite diopside garnet
6	sillimanite cordierite garnet, calcic plagioclase, almandine grossular, brown hornblende
7	cordierite Kfeldspar but no muscovite, may be wollastonite
8	granulite textures, involving two pyroxenes or garnet pyroxene
9	hornfels
10	high pressure, low temperature
11	shock metamorphism

Coded value domain DmMetamorphismType — Description; Field type *Long integer*; Split policy *Duplicate*; Merge policy *Default value*

Code	Description
1	burial
2	complex
3	contact
4	dynamic
5	pyro
6	regional

Coded value domain DmObservMethod — Description; Field type *Long integer*; Split policy *Duplicate*; Merge policy *Default value*

Code	Description
1	Field Obsrvation
2	Measure & Tape
3	Map
4	AeroPhoto Interpretation
5	SatelliteImagery Interpretation
6	Geophysical Interpretation

Coded value domain DmRegolithPattern — Description; Field type *Long integer*; Split policy *Default value*; Merge policy *Default value*

Code	Description
1	calcrete
2	silcrete
3	saprolith
4	laterite

Coded value domain DmResolution — Description; Field type *Long integer*; Split policy *Default value*; Merge policy *Default value*

Code	Description
1	10km
2	5km
3	1km
4	500m
5	200m
6	100m
7	50m
8	10m
9	5m
10	1m
11	variable

Coded value domain DmRockFabricType — Description; Field type *Long integer*; Split policy *Default value*; Merge policy *Default value*

Code	Description
1	Primary fabrics
2	Tectonic fabrics

Coded value domain DmRockType — Description; Field type *Long integer*; Split policy *Default value*; Merge policy *Default value*

Code	Description
1	chemical sediment
2	clastic sediment
3	felsic extrusive
4	felsic intrusive
5	intermediate intrusive
6	mafic extrusive
7	metamorphite
8	metasediment
9	pyroclastite
10	tectonite
11	vein
12	volcaniclastite

Coded value domain DmScale — Description; Field type *Long integer*; Split policy *Default value*; Merge policy *Default value*

Code	Description
0	Unknown
1	1:1,000,000
2	1:500,000
3	1:250,000
4	1:100,000
5	1:50,000
6	1:25,000
7	1:10,000
8	1:5,000
9	1:1,000
10	Variable

Coded value domain DmShearType — Description; Field type *Long integer*; Split policy *Duplicate*; Merge policy *Default value*

Code	Description
1	exposed
2	concealed

Coded value domain DmStrataNameValidation — Description; Field type *Long integer*; Split policy *Default value*; Merge policy *Default value*

Code	Description
1	valid
2	invalid
3	new

Range domain DmStrikeRange — Description; Field type *Long integer*; Split policy *Default value*; Merge policy *Default value*

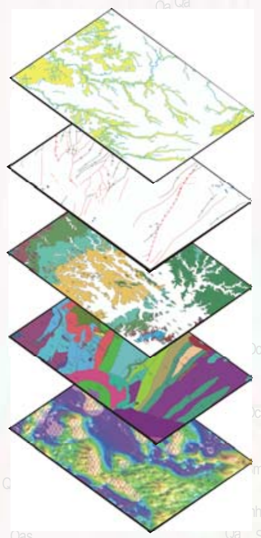
Minimum value	Maximum value
0	360

Coded value domain DmSurficialDepositSystem — Description; Field type *Long integer*; Split policy *Default value*; Merge policy *Default value*

Code	Description
600	Organic
601	Fluvial
602	Lacustrine
603	Colluvial
604	Eluvial
605	Aeolian
606	Chemical
607	Coastal
608	Estuarine
609	Anthropogenic
610	Volcanic
611	Marine
612	Glacial

Coded value domain DmTectonicEvent — Description; Field type *Long integer*; Split policy *Default value*; Merge policy *Default value*

Code	Description
1	abc
2	def
3	And More....

Coded value domain DmTrendLineType — Description; Field type *Long integer*; Split policy *Default value*; Merge policy *Default value*

Code	Description
500	bedding
501	foliation
502	bedding or foliation
503	gneissic
504	gneissic or foliation
505	igneous layering
506	igneous flowbounding