

6.0 APPENDIX A


6.1 OGDC-6 Feature Class Descriptions


Feature Class	Description
Bedding	Contains point features for Section 6 of the FGDC Standard.
Cleavage	Contains point features for Section 7 of the FGDC Standard.
Contacts	Contains line features for Section 1 of the FGDC Standard.
Faults	Contains line features for Section 2 of the FGDC Standard.
Folds	Contains line features for Section 5 of the FGDC Standard.
Foliation	Contains point features for Section 8 of the FGDC Standard.
GlacialAndSurficialLines	Contains line features for Section 13 of the FGDC Standard.
GlacialAndSurficialPoints	Contains point features for Section 13 of the FGDC Standard.
JointsAndLineaments	Contains line features for Section 4 of the FGDC Standard.
LandslideMWLineFeatures	Contains line features for Section 17 of the FGDC Standard.
LandslideMWPointFeatures	Contains point features for Section 17 of the FGDC Standard.
Lineation	Contains point features for Section 9 of the FGDC Standard.
MapUnitPolys	Contains map unit polygon features.
ObservationsOrnamentations_Contacts	Contains point features that represent line symbol decorations and notations for contacts, key beds and dikes. (Section 1.4)
ObservationsOrnamentations_Faults	Contains point features that represent line symbol decorations and notations for faults. (Section 2.11)
ObservationsOrnamentations_Joints	Contains points to represent observation and ornamentation symbols for Section 4.2 line features.
REF_MAP	Contains extent polygons that represent particular study areas where data was gathered and input into the OGDC geodatabase. (Also contains accompanying source information within the attribute table.)
SmallMinorFolds	Contains point features for Section 5.11 of the FGDC Standard.
SmallMinorJoints	Contains point features for Section 4.3 of the FGDC Standard.
VolcanicLineFeatures	Contains line features for Section 18 of the FGDC Standard.
VolcanicPointFeatures	Contains point features for Section 18 of the FGDC Standard.


6.2 OGDC-6 Table Descriptions


Table	Description
tblAge	Contains information about the stratigraphic and radiometric age of the map units, if available, given by the reference map's author(s). Linked to the tblMapUnit table.
tblEnvironment	Contains information about the genetic environment and landform, if available, given by the reference map's author(s), and whether or not information exists for geochemistry, paleontology or petrology. Linked to the tblMapUnit table.
tblFGDC_Lookup	Contains FGDC descriptions for the FGDC reference codes used to attribute the line and point features and to accurately depict the features using representations in ESRI's ArcMap software.
tblGlossary	Terminology used in the database or in a referenced external glossary.
tblMapSubUnit	Contains information about the components, or subunits, of the reference map unit. Linked to the tblMapUnit table.
tblMapSubUnitColors	Lists colors of the fresh and weathered rock surfaces for each subunit, if any, given by the reference map's author(s). Linked to the tblMapSubUnit table.
tblMapSubUnitHandSampleTexture	Contains information about the texture or appearance of each subunit at a hand sample level, if any, given by the reference map's author(s). Linked to the tblMapSubUnit table.
tblMapSubUnitLithologyMineralComp	Contains information of mineral or composition describers for each subunit, if any, given by the reference map's author(s). Linked to the tblMapSubUnit table.
tblMapSubUnitOutcropMajorStructures	Contains information about the structure of each subunit when viewed at the outcrop level, if any, given by the reference map's author(s). Linked to the tblMapSubUnit table.
tblMapUnit	Contains every reference map's unit geologic symbol and unit name. Linked to the MapUnitPolys feature class.
tblProjectAreaAbstract	Contains information about the study area and project from which the map units and associated geologic features are derived.
tblRefBaseMap	Contains the spatial information about the reference map and the reference map's base maps. Linked to the tblGeologicInfo table and within the REF_MAP feature class.
tblRefConversionInfo	Contains information about the conversion process to digital format of the reference geologic maps. Linked to the tblRefGeologicInfo table.
tblRefGeologicInfo	Contains the general bibliographic information about each reference map or database used to make the compilation. Linked to the tblMapUnit table.
tblStratigraphic	Contains formal or informal Stratigraphic classification and names of reference map units, if any, given by the reference map's author(s). Linked to the tblMapUnit table.
tblThickness	Contains information about the total thickness of the mapped unit, if available, given by the reference map's author(s). Linked to the tblMapUnit table.

6.3 OGDC-6 Geodatabase Schema Diagram

 Simple feature class Bedding		Geometry <i>Point</i> Contains M values <i>No</i> Contains Z values <i>No</i>		Contains point features for Section 6 of the FGDC Standard.	
Field name	Data type	Allow nulls	Default value	Domain	Precision Scale Length
OBJECTID	Object ID				
Shape	Geometry	Yes			
Azimuth	Float	No	0	Azimuth	0 0
Inclination	Float	No	0	Inclination	0 0
Label	String	Yes			256
DataSources_ID	Long integer	No	-1		0
Notes	String	Yes			memo
FGDCRefNo	String	Yes	no data	Bedding_Ref_Codes	16
FC_ID	Long integer	Yes	601	Feature Class	0
IDConf	Short integer	No	1	Confidence	0
LocConfMeters	Float	No	0		0 0
Type	String	No	no data	Bedding_Type	255
Direction of the intersection of the bedding plane and a horizontal surface					
Max angle of the slope of the bed as measured from a horizontal surface					
Inclination label					
Data Source ID (from tblRefGeologicInfo)					
Notes					
FGDC Reference Code for point feature					
Feature Class type					
Identity Confidence					
Location confidence measured in meters					
General bedding type					

 Simple feature class Cleavage		Geometry <i>Point</i> Contains M values <i>No</i> Contains Z values <i>No</i>		Contains point features for Section 7 of the FGDC Standard.	
Field name	Data type	Allow nulls	Default value	Domain	Precision Scale Length
OBJECTID	Object ID				
Shape	Geometry	Yes			
Azimuth	Float	No	0	Azimuth	0 0
Inclination	Float	No	0	Inclination	0 0
Label	String	Yes			256
DataSources_ID	Long integer	No	-1		0
Notes	String	Yes			memo
FGDCRefNo	String	Yes	no data	Cleavage_Ref_Codes	255
FC_ID	Long integer	Yes	701	Feature Class	0
IDConf	Short integer	No	1	Confidence	0
LocConfMeters	Float	No	0		0 0
Type	String	No	no data	CleavageTypes	255
Direction of the intersection of the bedding plane and a horizontal surface					
Max angle of the slope of the bed as measured from a horizontal surface					
Inclination label					
Data Source ID (from tblRefGeologicInfo)					
Notes					
FGDC Reference Code for point feature					
Feature Class type					
Identity Confidence					
Location confidence measured in meters					
General cleavage type					

 Simple feature class Contacts		Geometry <i>Polyline</i> Contains M values <i>No</i> Contains Z values <i>No</i>		Contains line features for Section 1 of the FGDC Standard.	
Field name	Data type	Allow nulls	Default value	Domain	Precision Scale Length
OBJECTID	Object ID				
Shape	Geometry	Yes			
Label	String	Yes	no data		256
DataSources_ID	Long integer	No	-1		0
Notes	String	Yes			memo
FGDCRefNo	String	Yes	no data	Contacts_Ref_Codes	255
FC_ID	Long integer	Yes	102	Feature Class	0
Shape_Length	Double	Yes			0 0
IDConf	Short integer	No	1	IDConfidence	0
LocConf	Short integer	No	1	LocConfidence	0
LocConfMeters	Float	No	0		0 0
Type	String	No	no data	ContactType	255
Adjacent_L	String	No	no data		255
Adjacent_R	String	No	no data		255
Reference_map_scale	String	Yes	no data		50
Label					
Data source ID from tblRefGeologicInfo					
Notes					
FGDC Reference Code for line feature					
Feature Class Type					
Identity Confidence					
Location Confidence					
Location Confidence measured in meters					
General contact type					
Map unit adjacent to contact line					
Map unit adjacent to contact line (opposite Adjacent_L)					
Reference map scale					

 Simple feature class Faults		Geometry <i>Polyline</i> Contains M values <i>No</i> Contains Z values <i>No</i>		Contains line features for Section 2 of the FGDC Standard.	
Field name	Data type	Allow nulls	Default value	Domain	Precision Scale Length
OBJECTID	Object ID				
Shape	Geometry	Yes			
Imp_FType	String	Yes	no data	Fault Type	256
Label	String	Yes			256
DataSources_ID	Long integer	No	-1		0
Notes	String	Yes			memo
FGDCRefNo	String	Yes	no data	Faults_Ref_Codes	255
FC_ID	Long integer	Yes	202	Feature Class	0
ftpl_dir	String	Yes			20
ftpl_deg	String	Yes			15
ftl_age	String	Yes		Genl_Age_Name	30
Shape_Length	Double	Yes			0 0
IDConf	Short integer	Yes	1	IDConfidence	0
LocConf	Short integer	Yes	1	LocConfidence	0
LocConfMeters	Float	Yes	0		0 0
Fault type					
Fault Label					
Data source ID from tblRefGeologicInfo					
Notes					
FGDC Reference Code for specific fault type/definition					
Feature Class type					
Fault Plane Direction (azimuth of the dip of the fault plane)					
Fault Plane Degrees (Number of degrees down from horizontal of the dip of the fault plane)					
Fault age (age of movement on the fault)					
Identity Confidence					
Location Confidence					
Location Confidence measured in meters					

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(OGDC-6 geodatabase schema, page 2; continued from previous page)

Simple feature class Folds						Geometry	Polyline		
						Contains M values	No		
						Contains Z values	No		
Field name	Data type	Allow nulls	Default value	Domain	Prec- ision	Scale	Length		
OBJECTID	Object ID								
Shape	Geometry	Yes							
Imp_FType	String	Yes	no data	Fold Type			256	Fold Type	
Label	String	Yes					256	Label	
DataSources_ID	Long integer	No	-1			0		Data Source ID from tblRefGeologicInfo	
Notes	String	Yes					memo	Notes	
FGDCRefNo	String	Yes	no data	Folds_Line_Ref_Codes			255	FGDC Reference Code for specific fold type	
FC_ID	Long integer	Yes	502	Feature Class		0		Feature Class Type	
fldpl_dir	String	Yes					20	Fold Plane Direction	
fldpl_deg	String	Yes					15	Fold Plane Degrees	
Shape_Length	Double	Yes				0	0		
IDConf	Short integer	Yes	1	IDConfidence		0		Identity Confidence	
LocConf	Short integer	Yes	1	LocConfidence		0		Location Confidence	
LocConfMeters	Float	Yes	0			0	0	Location confidence measured in meters	

Contains line features for Section 5 of the FGDC Standard.

Simple feature class Foliation						Geometry	Point		
						Contains M values	No		
						Contains Z values	No		
Field name	Data type	Allow nulls	Default value	Domain	Prec- ision	Scale	Length		
OBJECTID	Object ID								
Shape	Geometry	Yes							
Azimuth	Float	No	0	Azimuth		0	0	Azimuth	
Inclination	Float	No	0	Inclination		0	0	Inclination	
Label	String	Yes					256	Label	
DataSources_ID	Long integer	No	-1			0		Data source ID from tblRefGeologicInfo	
Notes	String	Yes					Memo	Notes	
FGDCRefNo	String	Yes	no data	Foliation_Ref_Codes			255	FGDC Reference Code for specific foliation type	
FC_ID	Long integer	Yes	801	Feature Class		0		Feature class type	
IDConf	Short integer	No	1	Confidence		0		Identity Confidence	
LocConfMeters	Float	No	0			0	0	Location confidence measured in meters	
Type	String	No	no data	Foliation Type			255	General Foliation Type	

Contains point features for Section 8 of the FGDC Standard.

Simple feature class GlacialAndSurficialLines						Geometry	Polyline		
						Contains M values	No		
						Contains Z values	No		
Field name	Data type	Allow nulls	Default value	Domain	Prec- ision	Scale	Length		
OBJECTID	Object ID								
Shape	Geometry	Yes							
Label	String	Yes					256	Label	
LocationMethod	String	No	0				256	LocationMethod	
DataSources_ID	Long integer	No	-1			0		Data Source Identifier	
Notes	String	Yes					memo	Notes	
FGDCRefNo	String	Yes	no data	Glacial_Ref_Codes			255	FGDC Reference Code for specific glacial type	
FC_ID	Long integer	Yes	1202	Feature Class		0		Feature class type	
Shape_Length	Double	Yes				0	0		
Type	String	No	no data	Glacial_Types			255	Glacial or Glaciofluvial feature type	
IDConf	Short integer	Yes	1	IDConfidence		0		IdentityConfidence	
LocConf	Short integer	Yes	1	LocConfidence		0		LocationConfidence	
LocConfMeters	Float	Yes	0			0	0	Location Confidence measured in meters	

Contains line features for Section 13 of the FGDC Standard.

Simple feature class GlacialAndSurficialPoints						Geometry	Point		
						Contains M values	No		
						Contains Z values	No		
Field name	Data type	Allow nulls	Default value	Domain	Prec- ision	Scale	Length		
OBJECTID	Object ID								
Shape	Geometry	Yes							
Azimuth	Float	No	0	Azimuth		0	0	Azimuth or strike	
Inclination	Float	No	0	Inclination		0	0	Inclination or dip	
Label	String	Yes					256	Label	
LocationConfidenceMeters	Float	No	0			0	0	Location Confidence measured in meters	
IDConf	Short integer	No	1	Confidence		0		Identity Confidence	
DataSources_ID	Long integer	No	-1			0		Data Sources Identifier	
OrientationConfidenceDegrees	Float	No	0			0	0	Orientation Confidence Degrees	
Notes	String	Yes					memo	Notes	
FGDCRefNo	String	Yes	no data	Glacial_Ref_Codes			255	FGDC Reference Code for specific glacial type	
FC_ID	Long integer	Yes	1201	Feature Class		0		Feature class type	
Type	String	Yes	no data	Glacial_Types			255	Glacial or Glaciofluvial feature type	

Contains point features for Section 13 of the FGDC Standard.

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(OGDC-6 geodatabase schema, page 3; continued from previous page)

Simple feature class JointsAndLineaments						Geometry	Polyline			
						Contains M values	No			
						Contains Z values	No			
Field name	Data type	Allow nulls	Default value	Domain	Prec- ision	Scale	Length			
OBJECTID	Object ID									
Shape	Geometry	Yes								
Imp_FType	String	Yes		JointType			256	Feature Type		
Label	String	Yes					256	Label		
DataSources_ID	Long integer	No	-1			0		Data source ID from tblRefGeologicInfo		
Notes	String	Yes					memo	Notes		
FGDCRefNo	String	Yes	no data	Lineaments.Joints_Ref_Codes_Line			255	FGDC Reference Code for specific feature type		
FC_ID	Long integer	Yes	402	Feature Class		0		Feature Class Type		
plane_dir	String	Yes	no data				20	Plane direction		
plane_deg	String	Yes	no data				15	Plane Degrees		
Shape_Length	Double	Yes			0	0				
IDConf	Short integer	Yes	1	IDConfidence		0		Identity Confidence		
LocConf	Short integer	Yes	1	LocConfidence		0		Location Confidence		
LocConfMeters	Float	Yes	0			0	0	Location confidence measured in meters		

Contains line features for Section 4 of the FGDC Standard.

Simple feature class LandslideMWPointFeatures						Geometry	Point			
						Contains M values	No			
						Contains Z values	No			
Field name	Data type	Allow nulls	Default value	Domain	Prec- ision	Scale	Length			
OBJECTID	Object ID									
Shape	Geometry	Yes								
Azimuth	Float	No	0	Azimuth		0	0	Azimuth or strike		
Inclination	Float	No	0	Inclination		0	0	Inclination or dip		
Label	String	Yes					256	Label		
IDConf	Short integer	No	1	Confidence		0		Identity Confidence		
DataSources_ID	Long integer	No	-1			0		Data Sources Identifier		
OrientationConfidenceDegrees	Float	No	0			0	0	Orientation Confidence Degrees		
Notes	String	Yes					memo	Notes		
FGDCRefNo	String	Yes	no data	Landslide_MW_RefCodes			255	FGDC Reference Code for specific feature type		
FC_ID	Long integer	Yes	1701			0		Feature Class Type		
LocConfMeters	Float	Yes	0			0	0	LocationConfidenceMeters		
Type	String	Yes	no data	Landslide_Types			100	Landslide Feature Type		

Contains point features for Section 17 of the FGDC Standard.

Simple feature class LandslideMWLineFeatures						Geometry	Polyline			
						Contains M values	No			
						Contains Z values	No			
Field name	Data type	Allow nulls	Default value	Domain	Prec- ision	Scale	Length			
OBJECTID	Object ID									
Shape	Geometry	Yes								
Label	String	Yes					256	Label		
LocationMethod	String	No	0				256	Location Method		
DataSources_ID	Long integer	No	-1			0		Data Source Identifier		
Notes	String	Yes					memo	Notes		
FGDCRefNo	String	Yes	no data	Landslide_MW_RefCodes			255	FGDC Reference Code for specific feature type		
FC_ID	Long integer	Yes	1702			0		Feature Class Type		
Shape_Length	Double	Yes			0	0				
IDConf	Short integer	Yes	1	IDConfidence		0		IdentityConfidence		
LocConf	Short integer	Yes	1	LocConfidence		0		LocationConfidence		
LocConfMeters	Float	Yes	0			0	0	LocationConfidenceMeters		
Type	String	Yes	no data	Landslide_Types			100	Landslide Feature Type		

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

Simple feature class Lineation						Geometry	Point			
						Contains M values	No			
						Contains Z values	No			
Field name	Data type	Allow nulls	Default value	Domain	Prec- ision	Scale	Length			
OBJECTID	Object ID									
Shape	Geometry	Yes								
Azimuth	Float	No	0	Azimuth		0	0	Azimuth		
Inclination	Float	No	0	Inclination		0	0	Inclination		
Label	String	Yes					256	Label		
DataSources_ID	Long integer	No	-1			0		Data source ID from tblRefGeologicInfo		
Notes	String	Yes					memo	Notes		
FGDCRefNo	String	Yes	no data	Lineation_Ref_Codes			255	FGDC reference code for specific lineation type		
FC_ID	Long integer	Yes	901	Feature Class		0		Feature class type		
IDConf	Short integer	No	1	Confidence		0		Identity Confidence		
LocConfMeters	Float	No	0			0	0	Location confidence measured in meters		
Type	String	No	no data	Lineation Type			255	General Type of feature		

Contains point features for Section 9 of the FGDC Standard.

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(OGDC-6 geodatabase schema, page 4; continued from previous page)

Simple feature class		Geometry		Polygon			
MapUnitPolys		Contains M values		No			
		Contains Z values		No			
Field name	Data type	Allow nulls	Default value	Domain	Precision	Scale	Length
OBJECTID	Object ID						
Shape	Geometry	Yes					
REF_ID_COD	String	Yes					25
MAP_UNIT_L	String	Yes	no data				12
MAP_UNIT_N	String	Yes	no data				100
G_MRG_U_L	String	Yes					60
GEO_GENL_U	String	Yes	no data	Geo_Genl_Unit			50
AGE_NAME	String	Yes	no data	Genl_Age_Name			50
TERRANE_GR	String	Yes	no data	Terrane_Grp_Name			50
FORMATION	String	Yes	No data	Formation_Name			200
MEMBER	String	Yes	No data	Member Name			50
UNIT	String	Yes	no data				50
G_ROCK_TYP	String	Yes	no data	Geo_Rock_Type			50
LITH_M_U_L	String	Yes	no data				50
LITH_GEN_U	String	Yes	no data	Lith_gen_u			75
LTH_RK_TYP	String	Yes	no data	Lithology_Rock_Type			50
LAYERING	String	Yes	no data	Genl_Layering			50
CR_GRN_SIZ	String	Yes	no data	Crystal_Grain_Sz			50
GETEC_PROP	String	Yes	no data	Geotech_Prop			50
GN_LITH_TY	String	Yes	no data	Genl_Lithology_Type			50
ArcJoinKey	String	Yes					37
MapUnitPK	Double	Yes			0	0	
Shape_Length	Double	Yes			0	0	
Shape_Area	Double	Yes			0	0	
DataSources_ID	Long integer	Yes	-1		0		
IDConf	Short integer	Yes	1	IDConfidence	0		

Contains map unit polygon features.

Reference ID Code- Unique code for each original reference map, expressed as the first 4 letters of the first author's last name, first and middle initials, the year of publication, and occasionally a map identifier

Map Unit Label- Reference map unit label symbol taken from the original reference map

Map Unit Name- Reference map unit name taken from the map legend or explanation of map units on the original reference map

Geologic Merge Unit Label- Label (period delimited) assigned by area geologists that combines all the original map units into 7 different general geologic categories

Geology General Unit- General geologic rock type of the geologic merge unit label, expressed by the genesis of the unit

Age Name- Age of geologic merge unit based on the Geologic Time Scale

Terrane or Group Name- Stratigraphic name (formally or informally named) for the terrane or group

Formation Name- Stratigraphic name for the geologic formation

Member Name- Stratigraphic name for the member type

Unit Name- Stratigraphic name for the unit type

Geology Rock Type- Characteristic lithology type name for the geologic merge unit label

Lithology Merge Unit Label- Label assigned for the lithologic compilation merge unit

Lithology General Unit- Physical character of the rock expressed by the genesis of the unit

Lithology Rock Type- Characteristic lithology name taken from the original source data for the lithologic merge unit

Layering- Rock stratum or layering info taken from the original source data for the lithologic merge unit

Crystal/Grain Size- Crystal or grain size component of the different rock types taken from the original source data for the lithologic merge unit

Geotechnical Properties- Rock or structural properties for the lithologic merge unit

General Lithology Type- rock type name for the lithologic merged unit

ArcGIS Join Key- for use with joins or relates of data tables

Map Unit primary key used for relationship classes

Data source ID from tblRefGeologicInfo

Identity Confidence

Simple feature class		Geometry		Point			
ObservationsOrnaments_Contacts		Contains M values		No			
		Contains Z values		No			
Field name	Data type	Allow nulls	Default value	Domain	Precision	Scale	Length
OBJECTID	Object ID						
Shape	Geometry	Yes					
Azimuth	Float	No	0	Azimuth	0	0	
Inclination	Float	No	0	Inclination	0	0	
Label	String	Yes					256
DataSources_ID	Long integer	No	-1		0		
Notes	String	Yes					memo
FGDCRefNo	String	Yes	no data	Contacts_Ref_Codes_pts			255
FC_ID	Long integer	Yes	104	Feature Class	0		
IDConf	Short integer	No	1	Confidence	0		
LocConfMeters	Float	No	0		0	0	
Type	String	Yes	no data	ContactType			255

Contains points to represent observation and ornamentation symbols for Section 1 line features.

Azimuth

Inclination

label

Data Source ID (from tblRefGeologicInfo)

Notes

FGDC Reference Code for point feature

Feature Class type

Identity Confidence

Location confidence (in meters)

General contact type

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(OGDC-6 geodatabase schema, page 5; continued from previous page)

Simple feature class ObservationsOrnamentations_Faults						Geometry	Point
						Contains M values	No
						Contains Z values	No
Field name	Data type	Allow nulls	Default value	Domain	Prec-ision	Scale	Length
OBJECTID	Object ID						
Shape	Geometry	Yes					
Azimuth	Float	No	0	Azimuth	0	0	
Inclination	Float	No	0	Inclination	0	0	
Label	String	Yes					256
DataSources_ID	Long integer	No	-1		0		
Notes	String	Yes					memo
FGDCRefNo	String	Yes	no data	Faults_Ref_Codes_pts			255
FC_ID	Long integer	Yes	204	Feature Class	0		
IDConf	Short integer	No	1	Confidence	0		
LocConfMeters	Float	No	0		0	0	
Type	String	Yes	no data	Fault Type			255

Contains points to represent observation and ornamentation symbols for Section 2 line features.

Simple feature class ObservationsOrnamentations_Joints						Geometry	Point
						Contains M values	No
						Contains Z values	No
Field name	Data type	Allow nulls	Default value	Domain	Prec-ision	Scale	Length
OBJECTID	Object ID						
Shape	Geometry	Yes					
Azimuth	Float	No	0	Azimuth	0	0	
Inclination	Float	No	0	Inclination	0	0	
Label	String	Yes					256
DataSources_ID	Long integer	No	-1		0		
Notes	String	Yes					memo
FGDCRefNo	String	Yes	no data	LineamentsJoints_OBS_Ref_Codes			255
FC_ID	Long integer	Yes	404	Feature Class	0		
IDConf	Short integer	No	1	Confidence	0		
LocConfMeters	Float	No	0		0	0	
Type	String	Yes	no data	JointType			255

Contains points to represent observation and ornamentation symbols for Section 4 line features.

Simple feature class REF_MAP						Geometry	Polygon
						Contains M values	No
						Contains Z values	No
Field name	Data type	Allow nulls	Default value	Domain	Prec-ision	Scale	Length
OBJECTID	Object ID						
Shape	Geometry	Yes					
REF_ID_COD	String	Yes					25
Reference_ID_code	String	Yes					255
First_author	String	Yes					255
Hectant	String	Yes					255
Other_authors	String	Yes					255
Publication_date	String	Yes					255
Publication_title	String	Yes					255
First_editor	String	Yes					255
Larger_work_citation	String	Yes					255
Publication_place	String	Yes					255
Originator	String	Yes					255
Series_name	String	Yes					255
Issue_identification	String	Yes					255
Map_identifier	String	Yes					255
Geospatial_data_format	String	Yes					255
Reference_map_scale	String	Yes					255
Reference_map_media	String	Yes					255
Reference_map_projection	String	Yes					255
Base_map_name	String	Yes					255
Base_map_scale	String	Yes					255
Base_map_date	String	Yes					255
Base_map_media	String	Yes					255
North_bounding_coordinate	Double	Yes			0	0	
South_bounding_coordinate	Double	Yes			0	0	
East_bounding_coordinate	Double	Yes			0	0	
West_bounding_coordinate	Double	Yes			0	0	
Processing_method	String	Yes					255
Processing_scale	Double	Yes			0	0	
Processing_date	Date	Yes			0	0	8
Shape_Length	Double	Yes			0	0	
Shape_Area	Double	Yes			0	0	

Contains polygon features that correspond to individual study areas.

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(OGDC-6 geodatabase schema, page 6; continued from previous page)

Simple feature class SmallMinorFolds						Geometry	Point
						Contains M values	No
						Contains Z values	No
Field name	Data type	Allow nulls	Default value	Domain	Prec- ision	Scale	Length
OBJECTID	Object ID						
Shape	Geometry	Yes					
Azimuth	Float	No	0	Azimuth	0	0	
Inclination	Float	No	0	Inclination	0	0	
Label	String	Yes					256
DataSources_ID	Long integer	No	-1		0		
Notes	String	Yes					memo
FGDCRefNo	String	Yes	no data	SmallMinorFolds_Ref_Codes_pts			255
FC_ID	Long integer	Yes	501	Feature Class	0		
IDConf	Short integer	No	1	Confidence	0		
LocConfMeters	Float	No	0		0	0	
Type	String	Yes	no data				255

Contains point features for Section 5.11 of the FGDC Standard.

Azimuth
Inclination
Label
Data Source ID (from tblRefGeologicInfo)
Notes
FGDC Reference Code for point feature
Feature Class type
Identity Confidence
Location confidence measured in meters
General fold type

Simple feature class SmallMinorJoints						Geometry	Point
						Contains M values	No
						Contains Z values	No
Field name	Data type	Allow nulls	Default value	Domain	Prec- ision	Scale	Length
OBJECTID	Object ID						
Shape	Geometry	Yes					
Azimuth	Float	No	0	Azimuth	0	0	
Inclination	Float	No	0	Inclination	0	0	
Label	String	Yes					256
DataSources_ID	Long integer	No	-1		0		
Notes	String	Yes					memo
FGDCRefNo	String	Yes	no data	LineamentsJoints_Point_Ref_Code			255
FC_ID	Long integer	Yes	401	Feature Class	0		
IDConf	Short integer	No	1	Confidence	0		
LocConfMeters	Float	No	0		0	0	
Type	String	Yes	no data				255

Contains point features for Section 4.3 of the FGDC Standard.

Azimuth
Inclination
Label
Data Source ID (from tblRefGeologicInfo)
Notes
FGDC Reference Code for point feature
Feature Class type
Identity Confidence
Location confidence measured in meters
General joint type

Simple feature class VolcanicLineFeatures						Geometry	Polyline
						Contains M values	No
						Contains Z values	No
Field name	Data type	Allow nulls	Default value	Domain	Prec- ision	Scale	Length
OBJECTID	Object ID						
Shape	Geometry	Yes					
Label	String	Yes					256
LocationMethod	String	No	0				256
DataSources_ID	Long integer	No	-1		0		
Notes	String	Yes					memo
FGDCRefNo	String	Yes	no data	VolcanicFeatures_Ref_Codes			255
FC_ID	Long integer	Yes	1802		0		
Shape_Length	Double	Yes			0	0	
Type	String	Yes	no data	VolcanicFeature_Types			100
IDConf	Short integer	Yes	1	IDConfidence	0		
LocConf	Short integer	Yes	1	LocConfidence	0		
LocConfMeters	Float	Yes	0		0	0	

Contains line features for Section 18 of the FGDC Standard.

Label
Location Method
Data Source ID (from tblRefGeologicInfo)
Notes
FGDC Reference code for line feature
Feature Class Type
Volcanic Feature type
IdentityConfidence
LocationConfidence
Location Confidence measured in meters

Simple feature class VolcanicPointFeatures						Geometry	Point
						Contains M values	No
						Contains Z values	No
Field name	Data type	Allow nulls	Default value	Domain	Prec- ision	Scale	Length
OBJECTID	Object ID						
Shape	Geometry	Yes					
Azimuth	Float	No	0	Azimuth	0	0	
Inclination	Float	No	0	Inclination	0	0	
Label	String	Yes					256
LocationConfidenceMeters	Float	No	0		0	0	
IDConf	Short integer	No	1	Confidence	0		
DataSources_ID	Long integer	No	-1		0		
OrientationConfidenceDegrees	Float	No	0		0	0	
Notes	String	Yes					memo
FGDCRefNo	String	Yes	no data	VolcanicFeatures_Ref_Codes			16
FC_ID	Long integer	Yes	1801		0		
Type	String	Yes	no data	VolcanicFeature_Types			100

Contains point features for Section 18 of the FGDC Standard.

Azimuth or strike
Inclination or dip
Label
Location Confidence measured in meters
Identity Confidence
Data Source ID (from tblRefGeologicInfo)
Orientation Confidence Degrees
Notes
FGDC Reference code for point feature
Feature Class Type
Volcanic Feature Type

6.4 OGDC-6 Relationship Descriptions

Relationship Name	Type	Cardinality	Origin Tbl/FC	PrimaryKey	ForeignKey	Destination Tbl/FC
Rel_GeoInfo_BaseMap	Composite	1-1	tblRefGeologicInfo	Reference_ID_code	Reference_ID_code	TblRefBaseMap
Rel_GeoInfo_ConvInfo	Composite	1-1	tblRefGeologicInfo	Reference_ID_code	Reference_ID_code	TblRefConversionInfo
Rel_GeoInfo_Mutbl	Composite	1-M	tblRefGeologicInfo	Reference_ID_code	ReferenceIDcode	tblMapUnit
Rel_MUtbl_Age	Composite	1-M	tblMapUnit	MapUnitPK	MapUnitFK	tblAge
Rel_MUtbl_Env	Composite	1-M	tblMapUnit	MapUnitPK	MapUnitFK	tblEnvironment
Rel_MUtbl_Mufc	Simple	1-M	tblMapUnit	MapUnitPK	MapUnitPK	MapUnitPolys
Rel_MUtbl_Stratigraphic	Composite	1-M	tblMapUnit	MapUnitPK	MapUnitFK	tblStratigraphic
Rel_MUtbl_SUtbl	Composite	1-M	tblMapUnit	MapUnitPK	MapUnitFK	tblMapSubUnit
Rel_MUtbl_Thickness	Composite	1-1	tblMapUnit	MapUnitPK	MapUnitFK	tblThickness
Rel_SUtbl_Sucolors	Composite	1-M	tblMapSubUnit	MapSubUnitPK	MapSubUnitFK	tblMapSubUnitColors
Rel_SUtbl_SUhandsampletext	Composite	1-M	tblMapSubUnit	MapSubUnitPK	MapSubUnitFK	tblMapSubUnitHandSampleTexture
Rel_SUtbl_SUlithologymincomp	Composite	1-M	tblMapSubUnit	MapSubUnitPK	MapSubUnitFK	tblMapSubUnitLithologyMineralComp
Rel_Sutbl_Suoutcropmjrstruct	Composite	1-M	tblMapSubUnit	MapSubUnitPK	MapSubUnitFK	tblMapSubUnitOutcropMajorStructures