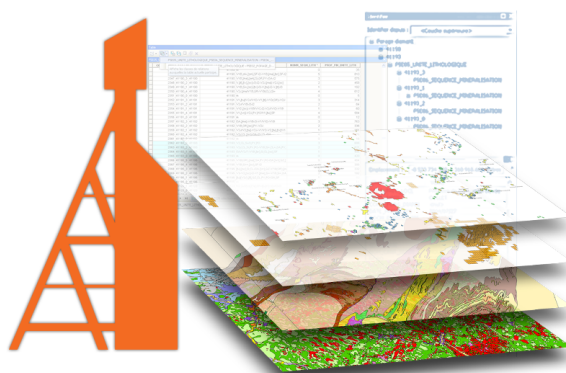


SAGÉOM

Nonmetallic deposit

Data model and domain value

Version 1.0
June 13, 2018

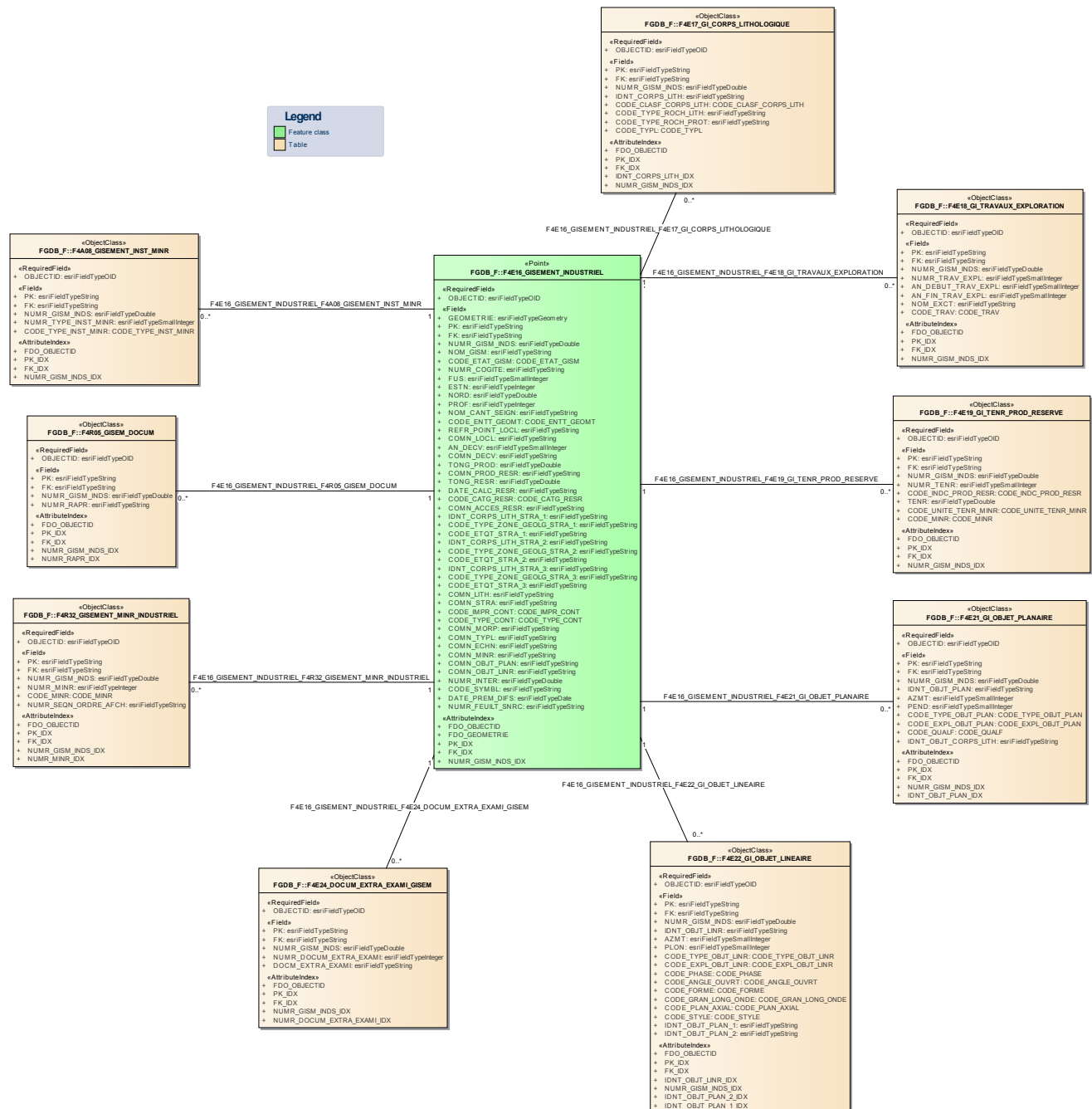


Direction de l'information géologique du Québec
Ministère de l'Énergie et des Ressources naturelles

Contact: service.mines.gouv.qc.ca

Non-metal deposits are geologic bodies that contain one or more minerals or substances liable to be exploited. They include :

- most industrial minerals
- precious stones



«Domain value - F4E16_GISEMENT_INDUSTRIEL»

Champ: CODE_CATG_RESR

◆ I = Unknown

◆ P = Probable reserves

◆ R = Resources

◆ V = Proved reserves

«Domain value - F4E16_GISEMENT_INDUSTRIEL»

Champ: CODE_ENTT_GEOMT

- ◆ AC = Compilation outcrop
- ◆ AG = Géofiche outcrop
- ◆ AN = Anomaly
- ◆ AT2QC = Atlas - All Québec
- ◆ BE = Erratic boulder
- ◆ BEQ = Erratic boulder
- ◆ BOL = Document
- ◆ CA = Outcrop outline
- ◆ CAM = Restrictions to mining
- ◆ CC = Colour map element
- ◆ CE = Exploration target
- ◆ CEPG = Exploration target polygon
- ◆ CEPT = Exploration target dot
- ◆ CGG = General geological contact
- ◆ CM = Mineralized body
- ◆ CO = Geological contact
- ◆ CQ = Contour
- ◆ CS = Ridge and furrow
- ◆ DA = Dating
- ◆ DC = Chronological data

- ◆ DE = Delta
- ◆ DG = Granular deposit
- ◆ DOC = Document
- ◆ DU = User data
- ◆ EF = Shape produced by melt-water
- ◆ EK = Esker
- ◆ EQ = Scarp
- ◆ ER = Rock sample
- ◆ ES = Sediment sample
- ◆ FD = Diamond drilling
- ◆ FG = General fault
- ◆ FM = Overburden drilling
- ◆ FQ = Glacial shape
- ◆ FR = Regional fault
- ◆ GE = Geochronology
- ◆ GM = Metallic deposit
- ◆ GME = Glacial erosional forms
- ◆ GNM = Non-metallic deposit
- ◆ HCL = Map framework & accessories location map
- ◆ HC1A1 = Map framework & accessories CG1 20k SW
- ◆ HC1A2 = Map framework & accessories CG1 20k SE
- ◆ HC1A3 = Map framework & accessories CG1 20k NW

- ◆ HC1A4 = Map framework & accessories CG1 20k NE
- ◆ HC1B = Map framework & accessories CG1 50k
- ◆ HC2A1 = Map framework & accessories CG2 20k SW
- ◆ HC2A2 = Map framework & accessories CG2 20k SE
- ◆ HC2A3 = Map framework & accessories CG2 20k NW
- ◆ HC2A4 = Map framework & accessories CG2 20k NE
- ◆ HC2B = Map framework & accessories CG2 50k
- ◆ HC3A1 = Map framework & accessories CG3 20k SW
- ◆ HC3A2 = Map framework & accessories CG3 20k SE
- ◆ HC3A3 = Map framework & accessories CG3 20k NW
- ◆ HC3A4 = Map framework & accessories CG3 20k NE
- ◆ HC3B = Map framework & accessories CG3 50k
- ◆ HC4A1 = Map framework & accessories CG4 20k SW
- ◆ HC4A2 = Map framework & accessories CG4 20k SE
- ◆ HC4A3 = Map framework & accessories CG4 20k NW
- ◆ HC4A4 = Map framework & accessories CG4 20k NE
- ◆ HC4B = Map framework & accessories CG4 50k
- ◆ HF = Map framework & accessories NTS map-sheet
- ◆ HGG1 = Map framework & accessories geology/gitology 50k
- ◆ HGRA1 = Map framework & access. geochemistry rock 20k SW
- ◆ HGRA2 = Map framework & access. geochemistry rock 20k SE
- ◆ HGRA3 = Map framework & access. geochemistry rock 20k NW
- ◆ HGRA4 = Map framework & access. geochemistry rock 20k NE

- ◆ HGRB = Map framework & accessories rock geochemistry 50k
- ◆ HGS = Map framework & access. sediment geochemistry 50k
- ◆ HG21 = Map framework & access. geology/petrology 250k
- ◆ HI1B = Map framework + accessories PI1 50k
- ◆ HI1C = Map framework + accessories PI1 250k
- ◆ HPICA = Map framework & accessories Picot 250K
- ◆ HPICB = Map framework & accessories Picot 50K
- ◆ HPOMA = Map framework & accessories mineral potential 250k
- ◆ HP1A1 = Map framework & accessories INPUT 20K SW
- ◆ HP1A2 = Map framework & accessories INPUT 20K SE
- ◆ HP1A3 = Map framework & accessories INPUT 20K NW
- ◆ HP1A4 = Map framework & accessories INPUT 20K NE
- ◆ HP1B = Map framework & accessories INPUT 50K
- ◆ HP1C = Map framework & accessories INPUT 250K
- ◆ HP2A1 = Map framework & accessories EM 20k SW
- ◆ HP2A2 = Map framework & accessories EM 20k SE
- ◆ HP2A3 = Map framework & accessories EM 20k NW
- ◆ HP2A4 = Map framework & accessories EM 20k NE
- ◆ HP2B = Map framework & accessories EM 50k
- ◆ HP2C = Map framework & accessories EM 250k
- ◆ HP3A1 = Map framework & accessories MAG 20K SW
- ◆ HP3A2 = Map framework & accessories MAG 20K SE

- ◆ HP3A3 = Map framework & access. MAG 20K NW
- ◆ HP3A4 = Map framework & access. MAG 20K NE
- ◆ HP3B = Map framework & accessories MAG 50K
- ◆ HP3C = Map framework & accessories MAG 250K
- ◆ HP4A1 = Map framework & access. magnetic gradient 20k SW
- ◆ HP4A2 = Map framework & access. magnetic gradient 20k SE
- ◆ HP4A3 = Map framework & access. magnetic gradient 20k NW
- ◆ HP4A4 = Map framework & access. magnetic gradient 20k NE
- ◆ HP4B = Map framework & access. magnetic gradient 50k
- ◆ HP4C = Map framework & access. magnetic gradient 250k
- ◆ HQ1A1 = Map framework + accessories GQ1 20k SW
- ◆ HQ1A2 = Map framework + accessories GQ1 20k SE
- ◆ HQ1A3 = Map framework + accessories GQ1 20k NW
- ◆ HQ1A4 = Map framework + accessories GQ1 20k NE
- ◆ HQ1B = Map framework + accessories GQ1 50k
- ◆ HRC = Map framework & accessories conductivity
- ◆ HRG = Map framework & access. magnetic field gradient
- ◆ HRM = Map framework & accessories magnetic field
- ◆ HT1A1 = Map framework + accessories TG1 20k SW
- ◆ HT1A2 = Map framework + accessories TG1 20k SE
- ◆ HT1A3 = Map framework + accessories TG1 20k NW
- ◆ HT1A4 = Map framework + accessories TG1 20k NE

◆ HT1B = Map framework + accessories TG1 50k

◆ HY = Hydrography

◆ IG = Isograd

◆ IM = Mining installation

◆ IR = Raster image

◆ ISV = Isoline

◆ LA = Old geomining survey

◆ LG = Geomining survey

◆ LI = Lineament

◆ LZ = Pseudo-boundary of the geological zone

◆ MA = Atlas

◆ MDS = Surficial landform

◆ MDSLGL = Surficial landform line

◆ MDSPG = Surficial landform polygon

◆ MDSPT = Surficial landform dot

◆ MEG = Erosion glaciaire mark

◆ MP = Mines and projects

◆ OR = Orography

◆ PEM = Mining property

◆ PI = Construction materials and industrial stone

◆ PIC = Picot symbol

◆ PL = Local geophysics

◆ PLA = Placer

- ◆ PM = Planimetric
- ◆ PO = Granular observation
- ◆ POM = Mineral potential
- ◆ PP = Paleogeographic position
- ◆ PR = Regional fold
- ◆ PRG = General fold
- ◆ PRO = Field project
- ◆ PU = Hydrogeology puit
- ◆ RC = Conductivity
- ◆ RG = Magnetic field vertical gradient
- ◆ RM = Magnetic field
- ◆ SG = Glacial striation
- ◆ SGE = Outstanding geological sites
- ◆ SGEO = Geological subdivision
- ◆ SGRPG = Granular site Polygon
- ◆ SGRPT = Granular site Dot
- ◆ SLIN = Linear structure folds
- ◆ SNRC = Layer SNRC
- ◆ SO = Peat observation point
- ◆ SOQ = Quaternary observation site
- ◆ SP = Paleontological site
- ◆ SPLA = Planar structure

- ◆ SS = Stratigraphic site
- ◆ TM = Mineral titles
- ◆ TMD = Mining Title on demand
- ◆ TOPO = Topology
- ◆ TRB = Peat bog
- ◆ TSLG = Count suppression LG
- ◆ TSPG = Count suppression Polygon
- ◆ TSPT = Count suppression Dot
- ◆ XX = ""Fake"" code"
- ◆ ZA = Outcrop area
- ◆ ZD = Scuffed zone
- ◆ ZF = Favorable area
- ◆ ZG = Geological zone
- ◆ ZGG = General geological zone
- ◆ ZGP = Geological zone centroid
- ◆ ZGPT = Geo zone dot
- ◆ ZL = Alteration zone
- ◆ ZLG = Zone LG
- ◆ ZM = Mineralized zone
- ◆ ZMS = Morpho-sedimentological zone
- ◆ ZQ = Morphosedimentological zone
- ◆ ZQP = Morphosedimentological zone centroid

◆ ZS = Sensitive area

«Domain value - F4E16_GISEMENT_INDUSTRIEL»

Champ: CODE_ETAT_GISM

◆ G = Deposit with estimated tonnage

◆ I = Showing, no work

◆ MA = Active mine

◆ MF = Closed mine

◆ P = Worked deposit

«Domain value - F4E16_GISEMENT_INDUSTRIEL»

Champ: **CODE_IMPR_CONT**

◆ AB = Absent

◆ IN = Indeterminate

◆ MI = Minor

◆ MJ = Major

◆ MO = Moderate

◆ NA = Not applicable

◆ VA = Variable

◆ XX = ""Fake"" code"

«Domain value - F4E16_GISEMENT_INDUSTRIEL»

Champ: CODE_TYPE_CONT

◆ C = Cleavage, schistosity

◆ F = In fault or shear

◆ I = Indeterminate

◆ L = Listed in lithology

◆ O = Stratification (deposit concordant with)

◆ P = In fold

◆ T = In fracture

◆ V = Vein

◆ X = Other

◆ Z = Not applicable

«Domain value - F4E17_GI_CORPS_LITHOLOGIQUE»

Champ: CODE_CLASF_CORPS_LITH

- ◆ A = Cluster
- ◆ B = Block
- ◆ C = Layer (band,bed)
- ◆ D = Dyke
- ◆ E = Gore
- ◆ F = Fragment
- ◆ G = Pod
- ◆ H = Sill
- ◆ I = Lens
- ◆ J = Nodule
- ◆ K = Concretion
- ◆ L = Lithology
- ◆ M = Mineral (crystal)
- ◆ N = Level (horizon)
- ◆ O = Augen
- ◆ P = Phenocryst
- ◆ Q = Pillow
- ◆ R = Band, ribbon
- ◆ S = Flow
- ◆ T = Streak

◆ U = Veinlet

◆ V = Vein

◆ W = Matrix

◆ X = Other

◆ Y = Weathered crust

◆ Z = Lamina

◆ 2 = Erratic boulder

◆ 9 = Mobilizate

«Domain value - F4E17_GI_CORPS_LITHOLOGIQUE»

Champ: CODE_TYPL

- ◆ 100 = Placer uranium, gold
- ◆ 1000 = Pb-Zn deposits (Mississippi Valley type)
- ◆ 110 = Paleoplacer uranium, gold
- ◆ 1100 = Ultramafic-hosted asbestos
- ◆ 111 = U-Au pyritic quartz pebble congl. and quartzites
- ◆ 112 = Auriferous hematitic conglom. and sandstones
- ◆ 120 = Placer gold, platinum
- ◆ 1200 = Volcanic-associated uranium
- ◆ 130 = Black sand
- ◆ 1300 = Vein uranium
- ◆ 1310 = Vein uranium
- ◆ 1320 = Vein uranium
- ◆ 1400 = Arsenide vein silver, uranium
- ◆ 1410 = Arsenide silver-cobalt veins
- ◆ 1420 = Arsenide vein uranium-silver
- ◆ 1500 = Lode gold
- ◆ 1510 = Epithermal gold deposits
- ◆ 1511 = Acid-type epithermal auriferous deposits
- ◆ 1512 = Neutral-type epithermal auriferous deposits
- ◆ 1513 = Submarine epithermal gold deposits

- ◆ 1514 = Carlin-type deposit
- ◆ 1520 = Orogenic auriferous veins
- ◆ 1521 = Orogenic auriferous veins with QZ-CB matrix
- ◆ 1530 = Auriferous deposits in iron-bearing formations
- ◆ 1540 = Disseminated and replacement gold deposits
- ◆ 1600 = Silver-Lead-Zinc veins
- ◆ 1610 = Silver-Lead-Zinc veins
- ◆ 1700 = Veins copper
- ◆ 1800 = Vein-stockwork tin, tungsten
- ◆ 1900 = Deposits associated with porphyry intrusions
- ◆ 1910 = Cu-Au-Mo deposits ass. with porphyry intrusions
- ◆ 1920 = Alkaline porphyry copper, gold
- ◆ 1930 = Copper porphyries
- ◆ 1940 = Mo-W deposits assoc. with porphyry intrusions
- ◆ 1950 = Tin granites
- ◆ 200 = Stratiform phosphate (phosphorite) deposits
- ◆ 2000 = Skarn and manto deposits
- ◆ 2010 = Skarn Zinc-lead-silver
- ◆ 2020 = Skarn copper
- ◆ 2021 = Cu skarns not assoc. with porphyry Cu deposits
- ◆ 2022 = Cu skarns assoc. with porphyry Cu deposits
- ◆ 2030 = Skarn gold

- ◆ 2040 = Skarn iron
- ◆ 2041 = Skarn iron-Contact metasomatic
- ◆ 2042 = Skarn iron-Stratiform in metamorphic terrane
- ◆ 2050 = Skarn tungsten
- ◆ 2060 = Zinc-lead-silver mantos
- ◆ 2070 = Cupriferous mantos
- ◆ 2100 = Granitic pegmatites
- ◆ 2200 = Kiruna/olympic dam-type Fe-Cu-U-Au-Ag
- ◆ 2210 = $\pm\text{Au} \pm\text{Cu} \pm\text{U}$ deposits associated with albitization
- ◆ 2300 = Hyperalkaline rock-associated rare metals
- ◆ 2400 = Carbonatite-associated deposits
- ◆ 2500 = Primary diamond deposits
- ◆ 2510 = Kimberlite-hosted diamond
- ◆ 2520 = Lamproite-hosted diamond
- ◆ 2600 = Iron and Titanium deposits in mafic intrusions
- ◆ 2610 = Iron and Titanium deposits in anorthosites
- ◆ 2620 = Iron and Titanium deposits in gabbros and anorthos
- ◆ 2700 = Magmatic or hydrothermal Ni-Cu-PGE
- ◆ 2710 = Magmatic Ni-Cu
- ◆ 2711 = Magmatic Ni-Cu associated with astroblemes
- ◆ 2712 = Magmatic Ni-Cu associated with rifts & contin.bslt
- ◆ 2713 = Magmatic Ni-Cu associated with komatites
- ◆ 2714 = Magmatic Ni-Cu assoc. anorthosites-troct.

- ◆ 2715 = Magmatic Ni-Cu assoc. ultra-mafic intrusions
- ◆ 2715a = Magmatic Ni-Cu assoc. ultra-maf. intr.(aphyr)
- ◆ 2715b = Magmatic Ni-Cu assoc. ultra-maf. intr.(glomero)
- ◆ 2716 = Magmatic Ni-Cu assoc. basalts
- ◆ 2720 = Magmatic PGE
- ◆ 2721 = Magmatic SF EGP, stratiform (reef), stratoid
- ◆ 2722 = Magmatic SF EGP, alloys, arsen. unstrat.
- ◆ 2723 = Magmatic PGE chromite, stratiform
- ◆ 2724 = Magmatic PGE chromite associated with ophiolites
- ◆ 2730 = Hydrothermal Ni-Cu
- ◆ 2731 = Hydrothermal Ni-Cu associated with komatites
- ◆ 2732 = Hydrothermal Ni-Cu assoc. ultra-mafic intrusions
- ◆ 2733 = Hydrothermal Ni-Cu assoc. anorthosites-troct.
- ◆ 2734 = Hydrothermal Ni-Cu associated with ophiolites
- ◆ 2735 = Hydrothermal Ni-Cu associated with gneiss
- ◆ 2736 = Hydrothermal Ni-Cu associated with volcanic rocks
- ◆ 2737 = Hydrothermal Ni-Cu associated with sedim. rocks
- ◆ 2800 = Mafic/ultramafic-hosted chromite
- ◆ 2810 = Stratiform chromite deposits
- ◆ 2820 = Podiform chromite deposits
- ◆ 2900 = Magmatic apatite dep. in lay. maf. int.
- ◆ 300 = Ferriferous sedimentary rocks

- ◆ 310 = Lake Superior type iron formations
- ◆ 320 = Algoma type iron formations
- ◆ 330 = Ironstone
- ◆ 400 = Residually enriched deposits
- ◆ 410 = Enriched iron-formation
- ◆ 420 = Supergene basemetals and precious metals
- ◆ 421 = Supergene Z.dev.over massive sulphide dep.
- ◆ 422 = Oxid. z. dev. up. parts of vein, sh/f. & rep.dep.
- ◆ 423 = Supergene ox.&sulph. Zones formed over porphyry
- ◆ 430 = Residual carbonatite-associated deposits
- ◆ 500 = Evaporite
- ◆ 600 = Deposits of exhalative sulphides
- ◆ 610 = Sedimentary exhalative sulphides (Sedex)
- ◆ 620 = Ni (\pm Zn \pm PGE \pm Mo) sulfides in sed. rocks
- ◆ 630 = Volcanic-associated massive sulphide base metals
- ◆ 631 = Besshi-type VMS
- ◆ 632 = Cyprus-type VMS
- ◆ 633 = Kuroko-type VMS
- ◆ 634 = Matabi-type VMS
- ◆ 635 = Noranda-type VMS
- ◆ 640 = Sulfides Au associated with volcanic rocks
- ◆ 641 = Massive Au sulfides associated with volcanic rocks

642 = Dissem. Au sulfides associated with volc. rock

643 = SF-QZ veins, Au synvolc. associated with volc.

700 = Unconformity - associated uranium

800 = Stratabound clastic-hosted U, Pb, Cu

810 = Uranium deposits in sedimentary rocks

811 = Uranium deposits in stoneware

812 = Uranium deposits in mudstones and siltites

813 = Uranium deposits in carbonates

820 = Sandstone lead

830 = Sediment-hosted stratiform copper

831 = Kupferschiefer

832 = Redbed-type Cu deposits

833 = Cu deposits in carbonates

900 = Volcanic redbed copper

9999 = Type of deposits indeterminate

«Domain value - F4E18_GI_TRAVAUX_EXPLORATION»

Champ: CODE_TRAV

- ◆ A = Geophysics/geochemistry
- ◆ C = Geophysics/geochemistry
- ◆ D = Stripping/trench
- ◆ E = Exploitation
- ◆ F = Drillings
- ◆ G = Geophysics/geochemistry
- ◆ I = Infrastructure development
- ◆ M = Market studies
- ◆ N = Undetermined
- ◆ P = Geophysics/geochemistry
- ◆ R = Closure/restoration of site
- ◆ T = Industrial trials (treatment of minerals)

«Domain value - F4E19_GI_TENR_PROD_RESERVE»

Champ: CODE_INDC_PROD_RESR

◆ P = Production

◆ R = Reserve

«Domain value - F4E19_GI_TENR_PROD_RESERVE»

Champ: CODE_MINR

- ◆ AA = Andesine
- ◆ AB = Albite
- ◆ AC = Actinolite
- ◆ AD = Andalusite
- ◆ AE = Agate
- ◆ AF = Fluorapatite
- ◆ AG = Augite
- ◆ Ag = Silver
- ◆ AH = Amethyst
- ◆ AI = Amazonite
- ◆ AK = Ankerite
- ◆ AL = Allanite
- ◆ AM = Amphibole
- ◆ AN = Anorthite
- ◆ AO = Asbestos
- ◆ AP = Apatite
- ◆ AQ = Emerald
- ◆ AR = Picrolite
- ◆ AS = Arsenopyrite
- ◆ AT = Anthophyllite

◆ AU = Autunite

◆ Au = Gold

◆ AV = Acanthite

◆ AX = Axinite

◆ AY = Anhydrite

◆ AZ = Azurite

◆ BA = Bastnaesite

◆ BC = Brucite

◆ BD = Boltwoodite

◆ BE = Brannerite

◆ BF = Betafite

◆ BG = Boulangerite

◆ BH = Brochantite

◆ BI = Birnessite

◆ Bi = Bismuth

◆ BL = Beryl

◆ BM = Bismuthinite

◆ BN = Bornite

◆ BO = Biotite

◆ BP = Aikinite

◆ BR = Barytine

◆ BS = Bismutite

◆ BT = Bytownite

◆ BU = Britholite

◆ BV = Bravoite

◆ BY = Baddeleyite

◆ CA = Calaverite

◆ CB = Carbonate

◆ CC = Calcite

◆ CD = Cordierite

◆ Cd = Cadmium

◆ CE = Cobaltite

◆ Ce₂O₃ = Cerium

◆ CF = Cubanite

◆ CG = Cummingtonite

◆ CH = Chert

◆ CI = Cleavelandite

◆ CJ = Cattierite

◆ CK = Cryptomelane

◆ CL = Chlorite

◆ CM = Chromite

◆ CN = Corundum

◆ CO = Chloanthite

◆ Co = Cobalt

◆ CP = Chalcopyrite

💠 CQ = Chalcedony

💠 CR = Chloritoid

💠 CS = Chrysotile

💠 CT = Chalcocite

💠 CU = Cuprite

💠 Cu = Copper

💠 CV = Covellite

💠 CW = Cancrinite

💠 CX = Clinopyroxene

💠 CY = Chrysocolla

💠 CZ = Clinozoisite

💠 DD = Diamond

💠 DG = Digenite

💠 DH = Maghemite

💠 DI = Braggite

💠 DJ = Djurleite

💠 DL = Devilline

💠 DM = Dolomite

💠 DN = Chamosite

💠 DP = Diopside

💠 DS = Dravite

💠 DT = Danaite

◆ DW = Sklodowskite

◆ DY = Soddyite

◆ Dy₂O₃ = Dysprosium

◆ EA = Emerald

◆ EC = Aeschynite - (Y)

◆ EG = Enargite

◆ EL = Celestite

◆ EM = Electrum

◆ EP = Epidote

◆ ER = Erythrite

◆ Er₂O₃ = Erbium

◆ ES = Enstatite

◆ EU = Eudialyte

◆ Eu₂O₃ = Europium

◆ EX = Euxenite - (Y)

◆ EY = Aegyrine

◆ FA = Fayalite

◆ FB = Fibrolite

◆ FC = Fuchsite

◆ FD = Feldspathoid

◆ Fe = Iron

◆ FF = Safflorite

◆ FG = Freibergite

◆ FK = Potassium feldspar

◆ FL = Fluorite

◆ FM = Ferrimolybdate

◆ FN = Black feldspar

◆ FO = Forsterite

◆ FP = Feldspar

◆ FR = Franklinite

◆ FS = Fergusonite

◆ FT = Ferghanite

◆ FV = Green/brown feldspar

◆ GA = Almandine garnet

◆ Ga₂O₃ = Gallium

◆ GB = Gummite

◆ GC = Glaucophane

◆ GD = Andradite

◆ Gd₂O₃ = Gadolinium

◆ GE = Gypsum

◆ GF = Greenalite

◆ GG = Grossular garnet

◆ GH = Gahnite

◆ GI = Gunningite

◆ GK = Greenockite

◆ GL = Galena

◆ GM = Manganiferous garnet

◆ GN = Grunerite

◆ GO = Goethite

◆ GP = Graphite

◆ GR = Garnet

◆ GS = Spessartine

◆ GT = Gedrite

◆ GU = Uvarovite

◆ GV = Glauconite

◆ GY = Pyrope garnet

◆ HB = Hornblende

◆ HC = Hercynite

◆ HD = Stilbite

◆ HE = Hemimorphite

◆ HfO2 = Hafnium

◆ HG = Hedenbergite

◆ HK = Holmquistite

◆ HL = Halite

◆ HM = Hematite

◆ HN = Hydromagnesite

◆ HO = Clinohypersthene

◆ Ho₂O₃ = Holmium

◆ HP = Hypersthene

◆ HR = Chondrodite

◆ HREO = Heavy rare earth

◆ HS = Specularite

◆ HT = Hydrocerussite

◆ HU = Thucholite

◆ HZ = Haezlewoodite

◆ IC = Magnesiochromite

◆ ID = Idaite

◆ IF = Issoferroplatinum

◆ IG = Iddingsite

◆ II = Peristerite

◆ IM = Ilmenite

◆ IR = Iriginite

◆ JA = Jadeite

◆ JP = Jasper

◆ JS = Jarosite

◆ KA = Akermanite

◆ KC = Sylvite

◆ KK = Klockmannite

◆ KL = Kaolinite

◆ KM = Kermesite

◆ KN = Kyanite

◆ KP = Korerupine

◆ KR = Krennerite

◆ KS = Kasolite

◆ La₂O₃ = Lanthanum

◆ LB = Labradorite

◆ LC = Leucite

◆ LD = Lepidocrocite

◆ LE = Lessingite

◆ LG = Löllingite

◆ LI = Laurite

◆ LM = Limonite

◆ LN = Linnaeite

◆ LP = Lepidolite

◆ LR = Anglesite

◆ LREO = Light rare earth

◆ LS = Lawsonite

◆ LU = Laumontite

◆ Lu₂O₃ = Lutetium

◆ LX = Leucoxene

◆ MA = Clay minerals

◆ MB = Molybdate

◆ MC = Malachite

◆ MD = Decorative minerals

◆ ME = Melilite

◆ MF = Mafic minerals

◆ MG = Magnetite

◆ MH = Martite

◆ MI = Mica

◆ MK = Merenskyite

◆ ML = Microcline

◆ MM = Manganite

◆ MN = Magnesite

◆ MO = Molybdenite

◆ Mo = Molybdenum

◆ MP = Mesoperthite

◆ MR = Radioactive minerals

◆ MS = Marcasite

◆ MT = Mariposite

◆ MU = Minnesotaite

◆ MV = Muscovite

◆ MW = Melonite

◆ MX = Heavy minerals

◆ MY = Yttrium (minerals)

◆ MZ = Monazite

◆ NA = Gersdorffite

◆ NaCl = Salt

◆ NB = Columbite/niobite

◆ Nb = Niobium

◆ Nb₂O₅ = Niobium

◆ NC = Gaspeite

◆ Nd₂O₃ = Néodymium

◆ NE = Meneghinite

◆ NF = Awaruite

◆ NG = Annabergite

◆ NH = Nephrite

◆ Ni = Nickel

◆ NM = Titanomagnetite

◆ NN = Stannite

◆ NP = Nepheline

◆ NS = Millerite

◆ NT = Anatase

◆ OA = Aragonite

◆ OC = Ochre

◆ OF = Iron oxide

◆ OG = Oligoclase

◆ OH = Basaltic hornblende (brown hornblende)

◆ OI = Niocalite

◆ OL = Ottrelite

◆ OM = Monticellite

◆ ON = Stibiconite

◆ OO = Cooperite

◆ OP = Opaque minerals

◆ OR = Orthoclase

◆ OS = Cervantite

◆ OT = Tetraferroplatinum

◆ OV = Olivine

◆ OX = Orthopyroxene

◆ OY = Aegyrine-augite

◆ PA = Phenacite/phenakite

◆ PB = Pitchblende

◆ Pb = Lead

◆ PC = Pistacite

◆ PD = Pentlandite

◆ Pd = Palladium

◆ PE = Paragonite

◆ PF = Periclase

◆ PG = Plagioclase

◆ PH = Phlogopite

◆ PI = Cosalite

◆ PJ = Posnjakite

◆ PK = Perovskite

◆ PL = Pyrophyllite

◆ PM = Pyrochlore

◆ PN = Prehnite

◆ PO = Pyrrhotine

◆ PP = Pumpellyite

◆ PQ = Petalite

◆ PR = Perthite

◆ Pr₂O₃ = Praseodymium

◆ PS = Pyrolusite

◆ PT = Penninite

◆ Pt = Platine

◆ PU = Phosphuranylite

◆ PX = Pyroxene

◆ PY = Pyrite

◆ PZ = Petzite

◆ P₂O₅ = Apatite

◆ QB = Blue quartz

◆ QZ = Quartz

◆ RB = Riebeckite

◆ RC = Roscoelite

◆ RD = Rhodochrosite

◆ RE = Rare earth minerals

◆ RL = Rutile

◆ RM = Romanechite

◆ RN = Rhodonite

◆ RU = Ruby

◆ RZ = Rozenite

◆ S = Sulfur

◆ SA = Sanidine

◆ SB = Stibnite

◆ SC = Scapolite

◆ Sc2O3 = Scandium

◆ SD = Siderite

◆ SE = Stilpnomelane

◆ Se = Selenium

◆ SF = Sulphides

◆ SG = Selenite

◆ SH = Sapphirine

◆ SI = Siderotil

◆ Si = Silicon

◆ SiO2 = Silica

◆ SK = Samarskite

◆ SL = Spinel

◆ SM = Sillimanite

◆ Sm₂O₃ = Samarium

◆ SN = Sphene/titanite

◆ SO = Spodumene

◆ SP = Sphalerite

◆ SR = Sericite

◆ SS = Sodalite

◆ ST = Serpentine

◆ SU = Staurolite

◆ SV = Sylvanite

◆ SW = Scheelite

◆ SX = Strontianite

◆ SY = Starkeyite

◆ SZ = Szomolnokite

◆ TA = Zinc tourmaline

◆ Ta = Tantalum

◆ Ta₂O₅ = Tantalum

◆ TB = Tellurobismuthite

◆ Tb₂O₃ = Terbium

◆ TC = Talc

◆ TD = Tetradymite

◆ TE = Tenorite

◆ Te = Tellurium

◆ TF = Schorlite/schorl

◆ TG = Dravite

◆ TH = Tetrahedrite

◆ ThO₂ = Thorium

◆ TI = Thorite

◆ TiO₂ = Ilmenite

◆ TL = Tourmaline

◆ TM = Tremolite

◆ Tm₂O₃ = Thulium

◆ TN = Tantalite

◆ TO = Columbotantelite

◆ TP = Altaite

◆ TR = Thorianite

◆ Tr = Rare earth

◆ TREO = Rare earth

◆ TS = Steatite

◆ TT = Tennantite

◆ TU = Torbernite

◆ TW = Smaltite

◆ TX = Xenotime-(Y)

- ◆ TZ = Topaz
- ◆ UB = Coffinite
- ◆ UC = Clarkeite
- ◆ UD = Gudmundite
- ◆ UH = Uranothorianite
- ◆ UI = Uranopilite
- ◆ UL = Samarskite - (Y)
- ◆ UN = Nickeline
- ◆ UO2 = Uranium
- ◆ UP = Uranophane
- ◆ UR = Uraninite
- ◆ US = Ulvöspinel
- ◆ UT = Uranothorite
- ◆ U3O8 = Uranium
- ◆ V = Vanadium
- ◆ VA = Valentinite
- ◆ VD = Arfvedsonite
- ◆ VL = Valleriite
- ◆ VO = Violarite
- ◆ VR = Vermiculite
- ◆ VS = Senarmontite
- ◆ VV = Vesuvianite

◆ V2O5 = Vanadium

◆ WD = Cerussite

◆ WF = Wolframite

◆ WH = Meymacite

◆ WL = Wollastonite

◆ WM = Willemite

◆ WN = Wulfenite

◆ WO = Bournonite

◆ WS = Wilsonite

◆ WT = Witherite

◆ XA = Charbon

◆ XB = Bioclast

◆ XC = Cement

◆ XD = Peloid

◆ XE = Pisolite

◆ XG = Organic matter

◆ XH = Hydrocarbon

◆ XI = Intraclast

◆ XL = Binding agent, matrix

◆ XM = Matrix

◆ XN = Anthraxolite

◆ XO = Oolite

◆ XP = Pellets

◆ XR = Lithoclast

◆ XT = Oncolite

◆ XU = Spicule

◆ XX = Others

◆ Y = Yttrium

◆ YA = Conulariid

◆ YB = Brachiopod

◆ Yb2O3 = Ytterbium

◆ YC = Cephalopod

◆ YD = Echinoderm

◆ YE = Sponge

◆ YF = Ichnofossil (trace fossil)

◆ YG = Graptolite

◆ YH = Archaeocyatha

◆ YI = Stromatoporoid

◆ YJ = Euryptéride

◆ YK = Fish

◆ YL = Trilobite

◆ YM = Salterella

◆ YN = Plant

◆ YO = Ostracod

◆ YP = Pelecypod

◆ YR = Crinoid

◆ YS = Stromatoids

◆ YT = Gastropod

◆ YU = Algae

◆ YW = Radiolaria

◆ YX = Corals

◆ YY = Unidentified fossil

◆ YZ = Bryozoan

◆ Y2O3 = Yttrium

◆ ZA = Sapphire

◆ ZB = Chabazite/chabazite

◆ ZC = Zircon

◆ ZH = Hydrozincite

◆ ZL = Zeolite

◆ ZN = Zincite

◆ ZO = Smithsonite

◆ ZP = Pollucite

◆ ZrO2 = Zirconium

◆ ZS = Zoisite

◆ ZT = Thomsonite

◆ ZU = Cyrtolite

«Domain value - F4E19_GI_TENR_PROD_RESERVE»

Champ: CODE_UNITE_TENR_MINR

◆ % = Percentage weight

◆ cct = Carat per hundred tonnes

◆ ppm = Parts per million

«Domain value - F4E21_GI_OBJET_PLANAIRE»

Champ: CODE_EXPL_OBJT_PLAN

0 = Surface

1 = Surface

2 = Surface

3 = Surface

4 = Surface

5 = Surface

6 = Surface

7 = Surface

8 = Surface

9 = Surface

«Domain value - F4E21_GI_OBJET_PLANAIRE»

Champ: CODE_QUALF

◆ C = In compression

◆ D = Dextral

◆ E = In extension

◆ G = Slide

◆ I = Reverse

◆ L = Normal sinistral

◆ M = Anastomosing

◆ N = Normal

◆ O = Oblique

◆ P = Spaced

◆ R = Crenulation

◆ S = Sinistral

◆ T = Reverse sinistral

◆ U = Continuous

◆ V = Reverse-dextral

◆ X = Normal-dextral

◆ Y = Stylolitic

◆ 0 = > 50

◆ 1 = 0 to 89 degrees

◆ 2 = 90 to 179 degrees

3 = 180 to 269 degrees

4 = 270 to 359 degrees

5 = 1

6 = 2 to 5

7 = 6 to 15

8 = 16 to 25

9 = 26 to 50

«Domain value - F4E21_GI_OBJET_PLANAIRE»

Champ: CODE_TYPE_OBJT_PLAN

- ◆ A = Axial plane
- ◆ B = Gneissosity of straight gneiss
- ◆ C = Shearing
- ◆ D = Differential lamination (compositional layering)
- ◆ F = Fault
- ◆ G = Gneissosity
- ◆ H = Shear bands
- ◆ I = Banding of unknown origin
- ◆ J = Joint
- ◆ K = Kink bands
- ◆ L = Mineral foliation
- ◆ M = Migmatitic banding
- ◆ N = Primary foliation
- ◆ O = Bedding, stratification
- ◆ P = Primary banding
- ◆ Q = Cleavage
- ◆ R = Minor fault
- ◆ S = Schistosity
- ◆ T = Tectonic banding
- ◆ U = Major fault

◆ V = Vein

◆ W = Mylonitic foliation or banding

◆ X = Others (specify)

◆ Y = Dyke

◆ Z = Zone of en echelon veins

◆ 9 = Kinematic indicators

«Domain value - F4E22_GI_OBJET_LINEAIRE»

Champ: CODE_ANGLE_OUVRT

◆ D = Undulating

◆ I = Isoclinal

◆ O = Open

◆ S = Tight

«Domain value - F4E22_GI_OBJET_LINEAIRE»

Champ: CODE_EXPL_OBJT_LINR

◆ C = Calculated

◆ F = Feldspar

◆ I = Mafic minerals

◆ M = Measured

◆ Q = Quartz

◆ X = Other minerals

◆ 1 = Sense in plunge direction

◆ 2 = Sense opposite to plunge direction

«Domain value - F4E22_GI_OBJET_LINEAIRE»

Champ: CODE_FORME

◆ A = Class 1A

◆ B = Class 1B (parallel)

◆ C = Class 1C

◆ F = By flow

◆ I = Intrafolial

◆ K = Conical

◆ P = Ptygmatic

◆ R = Sheath fold

◆ X = Others

◆ 2 = Class 2 (similar)

◆ 3 = Class 3

«Domain value - F4E22_GI_OBJET_LINEAIRE»

Champ: CODE_GRAN_LONG_ONDE

◆ A = 0.001 to 0.01 mm

◆ B = 0.01 to 0.05 mm

◆ C = 0.05 to 0.1 mm

◆ D = 0.1 to 0.2 mm

◆ E = 0.2 to 0.5 mm

◆ F = 0.5 to 1.0 mm

◆ G = 1 to 2 mm

◆ H = 2 to 5 mm

◆ J = 0.5 to 1 cm

◆ K = 1 to 3 cm

◆ L = 3 to 10 cm

◆ M = 10 to 30 cm

◆ N = 30 to 100 cm

◆ P = 1 m

◆ Q = 1 to 2 m

◆ R = 2 to 4 m

◆ S = 4 to 6 m

◆ T = 6 to 10 m

◆ U = 10 m

◆ V = 10 to 20 cm

◆ W = 20 to 50 m

◆ X = Others

◆ Y = 50 to 100 m

◆ Z = 100 m

◆ 1 = Less than 0.001 mm

◆ 2 = Less than 0.01 mm

◆ 3 = 0.01 to 0.2 mm

◆ 4 = Less than 0.2 mm

◆ 5 = 0.2 to 1.0 mm

◆ 6 = 1 to 5 mm

◆ 7 = 0.5 to 3 cm

◆ 8 = > 3 cm

«Domain value - F4E22_GI_OBJET_LINEAIRE»

Champ: CODE_PHASE

00 = 0-0 Phase

10 = Phase 1-0

20 = Phase 2-0

21 = Phase 2-1

30 = Phase 3-0

31 = Phase 3-1

32 = Phase 3-2

40 = Phase 4-0

41 = Phase 4-1

42 = Phase 4-2

43 = Phase 4-3

50 = Phase 5-0

51 = Phase 5-1

52 = Phase 5-2

53 = Phase 5-3

54 = Phase 5-4

«Domain value - F4E22_GI_OBJET_LINEAIRE»

Champ: CODE_PLAN_AXIAL

◆ D = Vertical-in upright fold

◆ G = Inclined, Knee fold

◆ H = Horizontal

◆ I = Inclined

◆ J = Inclined, Inclined fold

◆ L = Inclined, Reclined fold

◆ R = Inclined reversed fold

◆ S = Inclined, Overturned fold

◆ V = Vertical-in vertical fold

«Domain value - F4E22_GI_OBJET_LINEAIRE»

Champ: CODE_STYLE

- ◆ C = Boxed
- ◆ E = Fan-shaped
- ◆ F = Faulted fold
- ◆ I = Isoclinal
- ◆ J = Conjugate kinks
- ◆ K = Kinks
- ◆ M = M-shaped
- ◆ S = S-shaped
- ◆ V = Chevron
- ◆ W = W-shaped
- ◆ X = Others
- ◆ Y = Symmetric
- ◆ Z = Z-shaped

«Domain value - F4E22_GI_OBJET_LINEAIRE»

Champ: CODE_TYPE_OBJT_LINR

- ◆ A = Axial plane
- ◆ B = Boudin axis
- ◆ C = Crenulation
- ◆ E = Stretching lineation
- ◆ F = Fault striation
- ◆ G = Glacial striation, unknown direction
- ◆ H = Sedimentary lineation (sole mark)
- ◆ J = Columnar jointing axis
- ◆ L = Mullion axis
- ◆ M = Primary mineral lineation (magmatic)
- ◆ N = Secondary mineral lineation (tectono-metamorphic)
- ◆ P = Glacial striation, known direction
- ◆ Q = Quartz rods
- ◆ S = Sedimentary lineation
- ◆ T = Interlayer striation
- ◆ U = Sedimentary lineation (internal structure)
- ◆ X = Others
- ◆ Y = Smear
- ◆ 1 = Intersection
- ◆ 2 = Hinge

3 = Anticlinal hinge

4 = Synclinal hinge

5 = Antiformal hinge

6 = Synformal hinge

7 = Synformal anticline hinge

8 = Antiformal syncline hinge

9 = Conical fold hinge

«Domain value - F4R05_GISEM_DOCUM»

Champ: CODE_MINR

- ◆ AA = Andesine
- ◆ AB = Albite
- ◆ AC = Actinolite
- ◆ AD = Andalusite
- ◆ AE = Agate
- ◆ AF = Fluorapatite
- ◆ AG = Augite
- ◆ Ag = Silver
- ◆ AH = Amethyst
- ◆ AI = Amazonite
- ◆ AK = Ankerite
- ◆ AL = Allanite
- ◆ AM = Amphibole
- ◆ AN = Anorthite
- ◆ AO = Asbestos
- ◆ AP = Apatite
- ◆ AQ = Emerald
- ◆ AR = Picrolite
- ◆ AS = Arsenopyrite
- ◆ AT = Anthophyllite

◆ AU = Autunite

◆ Au = Gold

◆ AV = Acanthite

◆ AX = Axinite

◆ AY = Anhydrite

◆ AZ = Azurite

◆ BA = Bastnaesite

◆ BC = Brucite

◆ BD = Boltwoodite

◆ BE = Brannerite

◆ BF = Betafite

◆ BG = Boulangerite

◆ BH = Brochantite

◆ BI = Birnessite

◆ Bi = Bismuth

◆ BL = Beryl

◆ BM = Bismuthinite

◆ BN = Bornite

◆ BO = Biotite

◆ BP = Aikinite

◆ BR = Barytine

◆ BS = Bismutite

◆ BT = Bytownite

◆ BU = Britholite

◆ BV = Bravoite

◆ BY = Baddeleyite

◆ CA = Calaverite

◆ CB = Carbonate

◆ CC = Calcite

◆ CD = Cordierite

◆ Cd = Cadmium

◆ CE = Cobaltite

◆ Ce₂O₃ = Cerium

◆ CF = Cubanite

◆ CG = Cummingtonite

◆ CH = Chert

◆ CI = Cleavelandite

◆ CJ = Cattierite

◆ CK = Cryptomelane

◆ CL = Chlorite

◆ CM = Chromite

◆ CN = Corundum

◆ CO = Chloanthite

◆ Co = Cobalt

◆ CP = Chalcopyrite

💠 CQ = Chalcedony

💠 CR = Chloritoid

💠 CS = Chrysotile

💠 CT = Chalcocite

💠 CU = Cuprite

💠 Cu = Copper

💠 CV = Covellite

💠 CW = Cancrinite

💠 CX = Clinopyroxene

💠 CY = Chrysocolla

💠 CZ = Clinozoisite

💠 DD = Diamond

💠 DG = Digenite

💠 DH = Maghemite

💠 DI = Braggite

💠 DJ = Djurleite

💠 DL = Devilline

💠 DM = Dolomite

💠 DN = Chamosite

💠 DP = Diopside

💠 DS = Dravite

💠 DT = Danaite

◆ DW = Sklodowskite

◆ DY = Soddyite

◆ Dy₂O₃ = Dysprosium

◆ EA = Emerald

◆ EC = Aeschynite - (Y)

◆ EG = Enargite

◆ EL = Celestite

◆ EM = Electrum

◆ EP = Epidote

◆ ER = Erythrite

◆ Er₂O₃ = Erbium

◆ ES = Enstatite

◆ EU = Eudialyte

◆ Eu₂O₃ = Europium

◆ EX = Euxenite - (Y)

◆ EY = Aegyrine

◆ FA = Fayalite

◆ FB = Fibrolite

◆ FC = Fuchsite

◆ FD = Feldspathoid

◆ Fe = Iron

◆ FF = Safflorite

◆ FG = Freibergite

◆ FK = Potassium feldspar

◆ FL = Fluorite

◆ FM = Ferrimolybdate

◆ FN = Black feldspar

◆ FO = Forsterite

◆ FP = Feldspar

◆ FR = Franklinite

◆ FS = Fergusonite

◆ FT = Ferghanite

◆ FV = Green/brown feldspar

◆ GA = Almandine garnet

◆ Ga₂O₃ = Gallium

◆ GB = Gummite

◆ GC = Glaucophane

◆ GD = Andradite

◆ Gd₂O₃ = Gadolinium

◆ GE = Gypsum

◆ GF = Greenalite

◆ GG = Grossular garnet

◆ GH = Gahnite

◆ GI = Gunningite

◆ GK = Greenockite

◆ GL = Galena

◆ GM = Manganiferous garnet

◆ GN = Grunerite

◆ GO = Goethite

◆ GP = Graphite

◆ GR = Garnet

◆ GS = Spessartine

◆ GT = Gedrite

◆ GU = Uvarovite

◆ GV = Glauconite

◆ GY = Pyrope garnet

◆ HB = Hornblende

◆ HC = Hercynite

◆ HD = Stilbite

◆ HE = Hemimorphite

◆ HfO2 = Hafnium

◆ HG = Hedenbergite

◆ HK = Holmquistite

◆ HL = Halite

◆ HM = Hematite

◆ HN = Hydromagnesite

◆ HO = Clinohypersthene

◆ Ho₂O₃ = Holmium

◆ HP = Hypersthene

◆ HR = Chondrodite

◆ HREO = Heavy rare earth

◆ HS = Specularite

◆ HT = Hydrocerussite

◆ HU = Thucholite

◆ HZ = Haezlewoodite

◆ IC = Magnesiochromite

◆ ID = Idaite

◆ IF = Issoferroplatinum

◆ IG = Iddingsite

◆ II = Peristerite

◆ IM = Ilmenite

◆ IR = Iriginite

◆ JA = Jadeite

◆ JP = Jasper

◆ JS = Jarosite

◆ KA = Akermanite

◆ KC = Sylvite

◆ KK = Klockmannite

◆ KL = Kaolinite

◆ KM = Kermesite

◆ KN = Kyanite

◆ KP = Korerupine

◆ KR = Krennerite

◆ KS = Kasolite

◆ La₂O₃ = Lanthanum

◆ LB = Labradorite

◆ LC = Leucite

◆ LD = Lepidocrocite

◆ LE = Lessingite

◆ LG = Löllingite

◆ LI = Laurite

◆ LM = Limonite

◆ LN = Linnaeite

◆ LP = Lepidolite

◆ LR = Anglesite

◆ LREO = Light rare earth

◆ LS = Lawsonite

◆ LU = Laumontite

◆ Lu₂O₃ = Lutetium

◆ LX = Leucoxene

◆ MA = Clay minerals

◆ MB = Molybdate

◆ MC = Malachite

◆ MD = Decorative minerals

◆ ME = Melilite

◆ MF = Mafic minerals

◆ MG = Magnetite

◆ MH = Martite

◆ MI = Mica

◆ MK = Merenskyite

◆ ML = Microcline

◆ MM = Manganite

◆ MN = Magnesite

◆ MO = Molybdenite

◆ Mo = Molybdenum

◆ MP = Mesoperthite

◆ MR = Radioactive minerals

◆ MS = Marcasite

◆ MT = Mariposite

◆ MU = Minnesotaite

◆ MV = Muscovite

◆ MW = Melonite

◆ MX = Heavy minerals

◆ MY = Yttrium (minerals)

◆ MZ = Monazite

◆ NA = Gersdorffite

◆ NaCl = Salt

◆ NB = Columbite/niobite

◆ Nb = Niobium

◆ Nb₂O₅ = Niobium

◆ NC = Gaspeite

◆ Nd₂O₃ = Néodymium

◆ NE = Meneghinite

◆ NF = Awaruite

◆ NG = Annabergite

◆ NH = Nephrite

◆ Ni = Nickel

◆ NM = Titanomagnetite

◆ NN = Stannite

◆ NP = Nepheline

◆ NS = Millerite

◆ NT = Anatase

◆ OA = Aragonite

◆ OC = Ochre

◆ OF = Iron oxide

◆ OG = Oligoclase

◆ OH = Basaltic hornblende (brown hornblende)

◆ OI = Niocalite

◆ OL = Ottrelite

◆ OM = Monticellite

◆ ON = Stibiconite

◆ OO = Cooperite

◆ OP = Opaque minerals

◆ OR = Orthoclase

◆ OS = Cervantite

◆ OT = Tetraferroplatinum

◆ OV = Olivine

◆ OX = Orthopyroxene

◆ OY = Aegyrine-augite

◆ PA = Phenacite/phenakite

◆ PB = Pitchblende

◆ Pb = Lead

◆ PC = Pistacite

◆ PD = Pentlandite

◆ Pd = Palladium

◆ PE = Paragonite

◆ PF = Periclase

◆ PG = Plagioclase

◆ PH = Phlogopite

◆ PI = Cosalite

◆ PJ = Posnjakite

◆ PK = Perovskite

◆ PL = Pyrophyllite

◆ PM = Pyrochlore

◆ PN = Prehnite

◆ PO = Pyrrhotine

◆ PP = Pumpellyite

◆ PQ = Petalite

◆ PR = Perthite

◆ Pr₂O₃ = Praseodymium

◆ PS = Pyrolusite

◆ PT = Penninite

◆ Pt = Platine

◆ PU = Phosphuranylite

◆ PX = Pyroxene

◆ PY = Pyrite

◆ PZ = Petzite

◆ P₂O₅ = Apatite

◆ QB = Blue quartz

◆ QZ = Quartz

◆ RB = Riebeckite

◆ RC = Roscoelite

◆ RD = Rhodochrosite

◆ RE = Rare earth minerals

◆ RL = Rutile

◆ RM = Romanechite

◆ RN = Rhodonite

◆ RU = Ruby

◆ RZ = Rozenite

◆ S = Sulfur

◆ SA = Sanidine

◆ SB = Stibnite

◆ SC = Scapolite

◆ Sc₂O₃ = Scandium

◆ SD = Siderite

◆ SE = Stilpnomelane

◆ Se = Selenium

◆ SF = Sulphides

◆ SG = Selenite

◆ SH = Sapphirine

◆ SI = Siderotil

◆ Si = Silicon

◆ SiO₂ = Silica

◆ SK = Samarskite

◆ SL = Spinel

◆ SM = Sillimanite

◆ Sm₂O₃ = Samarium

◆ SN = Sphene/titanite

◆ SO = Spodumene

◆ SP = Sphalerite

◆ SR = Sericite

◆ SS = Sodalite

◆ ST = Serpentine

◆ SU = Staurolite

◆ SV = Sylvanite

◆ SW = Scheelite

◆ SX = Strontianite

◆ SY = Starkeyite

◆ SZ = Szomolnokite

◆ TA = Zinc tourmaline

◆ Ta = Tantalum

◆ Ta₂O₅ = Tantalum

◆ TB = Tellurobismuthite

◆ Tb₂O₃ = Terbium

◆ TC = Talc

◆ TD = Tetradymite

◆ TE = Tenorite

◆ Te = Tellurium

◆ TF = Schorlite/schorl

◆ TG = Dravite

◆ TH = Tetrahedrite

◆ ThO₂ = Thorium

◆ TI = Thorite

◆ TiO₂ = Ilmenite

◆ TL = Tourmaline

◆ TM = Tremolite

◆ Tm₂O₃ = Thulium

◆ TN = Tantalite

◆ TO = Columbotantalite

◆ TP = Altaite

◆ TR = Thorianite

◆ Tr = Rare earth

◆ TREO = Rare earth

◆ TS = Steatite

◆ TT = Tennantite

◆ TU = Torbernite

◆ TW = Smaltite

◆ TX = Xenotime-(Y)

- ◆ TZ = Topaz
- ◆ UB = Coffinite
- ◆ UC = Clarkeite
- ◆ UD = Gudmundite
- ◆ UH = Uranothorianite
- ◆ UI = Uranopilite
- ◆ UL = Samarskite - (Y)
- ◆ UN = Nickeline
- ◆ UO2 = Uranium
- ◆ UP = Uranophane
- ◆ UR = Uraninite
- ◆ US = Ulvöspinel
- ◆ UT = Uranothorite
- ◆ U3O8 = Uranium
- ◆ V = Vanadium
- ◆ VA = Valentinite
- ◆ VD = Arfvedsonite
- ◆ VL = Valleriite
- ◆ VO = Violarite
- ◆ VR = Vermiculite
- ◆ VS = Senarmontite
- ◆ VV = Vesuvianite

◆ V2O5 = Vanadium

◆ WD = Cerussite

◆ WF = Wolframite

◆ WH = Meymacite

◆ WL = Wollastonite

◆ WM = Willemite

◆ WN = Wulfenite

◆ WO = Bournonite

◆ WS = Wilsonite

◆ WT = Witherite

◆ XA = Charbon

◆ XB = Bioclast

◆ XC = Cement

◆ XD = Peloid

◆ XE = Pisolite

◆ XG = Organic matter

◆ XH = Hydrocarbon

◆ XI = Intraclast

◆ XL = Binding agent, matrix

◆ XM = Matrix

◆ XN = Anthraxolite

◆ XO = Oolite

◆ XP = Pellets

◆ XR = Lithoclast

◆ XT = Oncolite

◆ XU = Spicule

◆ XX = Others

◆ Y = Yttrium

◆ YA = Conulariid

◆ YB = Brachiopod

◆ Yb2O3 = Ytterbium

◆ YC = Cephalopod

◆ YD = Echinoderm

◆ YE = Sponge

◆ YF = Ichnofossil (trace fossil)

◆ YG = Graptolite

◆ YH = Archaeocyatha

◆ YI = Stromatoporoid

◆ YJ = Euryptéride

◆ YK = Fish

◆ YL = Trilobite

◆ YM = Salterella

◆ YN = Plant

◆ YO = Ostracod

◆ YP = Pelecypod

◆ YR = Crinoid

◆ YS = Stromatoids

◆ YT = Gastropod

◆ YU = Algae

◆ YW = Radiolaria

◆ YX = Corals

◆ YY = Unidentified fossil

◆ YZ = Bryozoan

◆ Y2O3 = Yttrium

◆ ZA = Sapphire

◆ ZB = Chabazite/chabasite

◆ ZC = Zircon

◆ ZH = Hydrozincite

◆ ZL = Zeolite

◆ ZN = Zincite

◆ ZO = Smithsonite

◆ ZP = Pollucite

◆ ZrO2 = Zirconium

◆ ZS = Zoisite

◆ ZT = Thomsonite

◆ ZU = Cyrtolite

«Domain value - F4A08_GISEMENT_INST_MINR»

Champ: CODE_TYPE_INST_MINR

- ◆ BR = Tailings pond
- ◆ CC = Quarry
- ◆ CG = Aggregate quarry
- ◆ CO = Open stope
- ◆ DB = Tailings pond dyke
- ◆ GF = Adit
- ◆ GL = Geallery
- ◆ HS = Waste dump
- ◆ MO = Opencast mine
- ◆ PI = Inclined shaft
- ◆ PO = Projected underground opening
- ◆ PV = Vertical shaft
- ◆ RP = Ramp
- ◆ UT = Treatment plant