MINFILE/pc and MINFILE/www 5.0 User's Manual
Information Circular 2007-5

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Welcome to the User's Manual for MINFILE/pc v. 5.0, a powerful mineral inventory system for British Columbia and beyond! The MINFILE/pc User's Manual provides instructions on downloading, installing, and using MINFILE/pc and MINFILE/www. This page contains links to each section and subsection of the manual. A more concise version of the manual is available online at http://minfile.gov.bc.ca/Help/MINFILE www/MINFILE_www.htm. This manual compliments the MINFILE Coding Manual Version 5.0, which is a guide to the collection and entry of data into the MINFILE database. The information contained in this manual is the property of the B.C. Geological Survey (BCGS), and may not be commercially reproduced or sold without the express permission of the BCGS.

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MINFILE User's Manual - Chapter I
Introduction

A. [About MINFILE/pc and MINFILE/www](#)
B. [Installing MINFILE/pc](#)

This section of the manual provides background information on MINFILE/pc and MINFILE/www. It will also tell you how to install MINFILE/pc on your computer. If you already have the 5.0 Version installed, you might find it useful to skip ahead to the Operating MINFILE section. If you have never worked with MINFILE/pc, and need to install it, the following sections will be exactly what you need.

Please note that the information contained in this manual is the property of the BC Geological Survey Branch (GSB), and may not be commercially reproduced or sold without the express permission of the GSB.

A. About MINFILE/pc and MINFILE/www

1. The History of MINFILE

In 1967, a card-based inventory of mineral occurrences in British Columbia was created and maintained by the BC Geological Survey of the British Columbia Department of Mines and Petroleum Resources.

In 1973, at the University of British Columbia, a project was initiated to transfer the information contained in the unwieldy card-based files to a searchable, computerized system. The resulting system, called MINDEP, required powerful mainframes or minicomputers to operate.

In 1976, MINDEP was placed in the custody of the BC Geological Survey of the Ministry of Energy, Mines and Petroleum Resources. Renamed MINFILE, the system underwent numerous evolutionary changes until, in November of 1987, MINFILE/pc Version 1.0 was released.

With the advent of MINFILE/pc, the database on British Columbia mineral occurrences was easily and immediately accessible to users throughout the province. Since 1987, MINFILE/pc has undergone further development, Version 3.0 was released in July, 1991 and Version 4.0 was released in January, 1995. Version 4.0a of the software, released in May, 1995, introduced 3 new extract files, memory management changes, and installation fixes. MINFILE/pc version 4.5 featured greatly increased flexibility in handling and storing data, new searches, Y2K fixes and an expanded database.

In 2006, MINFILE/pc Version 5.0 was released. This version was converted to an MS Access application that is downloadable from the web. Due to the large file size MINFILE/pc is a compressed (zipped) file. Version 5.0 is not compatible with older versions of MINFILE/pc. At this time, a new component called MINFILE/www was introduced to provide online data entry and online access to the MINFILE database.

2. MINFILE/pc and MINFILE/www Features

The user-friendly MINFILE/pc and MINFILE/www programs are a valuable tool for anyone interested in exploration, mining or minerals in British Columbia. Using MINFILE/pc and MINFILE/www, you can go

"computer prospecting," anywhere in British Columbia. The main features are:

- Free: the MINFILE/pc program and data is available for download free of charge.

- Variety of searches: the data can be searched on a number of criteria under two types of searches - Basic and Advanced.

- Variety of reports: MINFILE/pc provides a portable extract of the MINFILE database along with search forms and printable reports. MINFILE/www provides on screen occurrence summary data, reports and downloads of the MINFILE database for Internet users. Online data entry via MINFILE/www can be performed with pre-authorization from the BC Geological Survey in Victoria.

- Custom datasets: you can easily make your own customized datasets, import datasets and/or backup your data.

- New Coding Manual: the BC Geological Survey has developed a new Coding Manual for use with MINFILE/pc Version 5.0 and MINFILE/www.

NOTE: Adding or changing data will mean that the user's data and the distributed MINFILE database are no longer the same. Please send data updates to BC Geological Survey in Victoria so that the main database can be updated.

The BC Geological Survey, Victoria (see contacts in Chapter VII) maintains control of all items in the distributed MINFILE database. At this office, MINFILE numbers are assigned and all data for distribution is created.

B. Installing MINFILE/pc

1. System Requirements

In order to run MINFILE/pc, certain technical requirements must be met. These include:

a.   MINFILE/pc requires Microsoft Access 2000 (or a later version) installed on your computer.
b.   An internet connection is required to download MINFILE/pc from the website.
c.   A downloadable shareware version of WinRAR is available free of charge for evaluation purposes. To download or find out more about WinRAR go to http://www.rarlabs.com/. WinRAR is a powerful compression tool with many integrated additional functions to help you organize your compressed archives. • WinRAR supports all popular compression formats (RAR, ZIP, CAB, ARJ, LZH, ACE, TAR, GZip, UUE, ISO, BZIP2, Z and 7-Zip).

Minimum Hardware Requirements

- Pentium 75-megahertz (MHz) or higher processor.
- Microsoft Windows 95, 98 NT, 2000 XP or later.

NOTE: Windows 2000 requires a Pentium 133 megahertz (MHz) or higher processor.

Software Requirements

- Microsoft Access 2000, XP or a later version.

- WinRAR to download MINFILE/pc.

The existing MINFILE/pc program and data for the province presently occupies approximately 307 megabytes of hard disk space once downloaded and extracted.

2. The MINFILE/pc Package

The MINFILE/pc Version 5.0 (December 2006) including the online version of this User's Manual can be downloaded from:

http://www.em.gov.bc.ca/mining/Geolsurv/Minfile/minfpc.htm

3. How to Install MINFILE/pc

- Be sure you've downloaded WinRar first. Use WinRAR http://www.rarlabs.com to extract the compressed MINFILE-pc.RAR file. The download contains a MINFILE/pc Help file.
- Click on the link **Download MINFILE/pc** from the above mentioned page. A File Download window will pop up asking "Do you want to open or save this file?" Click on **Save** to save your MINFILE/pc file on your computer to a directory of your choice. This file is approximately 31.2 Mb in size in .rar format. Once extracted it is approximately 307 Mb in size.
- Go to the directory where you saved the minfile-pc.rar file and double click on the MS Access file called minfile-pc.mdb. A security warning may pop up - click **Open** now. You are now ready to start searching on the MINFILE/pc database on your computer. There are basic searches and advanced searches.

    Note: MINFILE_pc.chm is the Help file.

4. Link to MINFILE/www

- Click on your internet browser and go to the online searches at http://minfile.gov.bc.ca

NOTE: A copy of the readme.doc is located in Appendix J.

At the top-centre of the screen you will see the word "Total Records:____". The number in the blank indicates the number of records in the database since you downloaded it or called it up in your browser. At this point, you are ready to search the MINFILE database, report on the findings, or recommend edits to the data (via BC Geological Survey staff).

MINFILE User's Manual - Chapter II
Operating MINFILE/pc and MINFILE/www

A. [Getting Started in MINFILE/pc](#)

B. [Getting Help in MINFILE/pc](#)

C. [Getting Around in MINFILE](#)

D. [General Comments on Searches](#)

E. [Reports](#)

F. [Code Table Maintenance](#)

G. [General Comments on Data Entry](#)

A. Getting Started in MINFILE/pc

When MINFILE/pc is installed, you are ready to go. There are two ways to open MINFILE/pc:

From the MINFILE/pc file

1. Browse your computer to find the MINFILE/pc file (called minfile_pc.mdb) stored on your computer.
2. Click the MINFILE/pc file (minfile_pc.mdb) to open the file.
3. MS Access opens automatically with MINFILE/pc open on the MINFILE/pc Search Menu Form.

From MS Access

1. Open MS Access.
2. From the file menu Select **open**.
3. Browse your computer or network for your MINFILE/pc file (minfile_pc.mdb) and click on the file to open it.
4. MINFILE/pc opens automatically on the MINFILE/pc Search Menu Form.
5. Select **basic** or **advanced searches** or return to the tables menu.

If this proves unsuccessful, then you will need to return to review (Installing MINFILE/pc, Chapter 1, Section B). When MINFILE/pc is loaded and running you will see the title screen below:

B. Getting Help in MINFILE/pc

MINFILE/pc is equipped with a number of Help Screens.   Go to the directory where you extracted the MINFILE/pc files and double click on MINFILE_pc.chm to open up the MINFILE/pc help file. If you did not download it then please return to http://www.em.gov.bc.ca/mining/Geolsurv/Minfile/minfpc.htm and download it and print a copy. It will open up to look like the following:

MINFILE pc

Hide   Back   Forward   Print

Contents | Index | Search |

- ? About MINFILE
- Getting Started
- Search
- Search Results
- Reports

MINFILE/pc Help

Welcome

Welcome to MINFILE Help, the User's Manual for MINFILE/pc, a powerful mineral inventory system for British Columbia. The MINFILE/pc User's Manual provides instructions on downloading, installing, and using MINFILE/pc.

MINFILE/www consists of basic and advanced search, on-screen occurrence summary data, reports and downloads of the MINFILE database; available for Internet users.

MINFILE/pc provides a portable extract of the MINFILE database along with search forms and printable reports.

About MINFILE

MINFILE contains geological, locational and economic information on over 12,100 metallic, industrial mineral and coal occurrences in British Columbia.

MINFILE information is listed by:

- Names; commodities; status (showings to major producing mines).
- Location (NTS map, longitude/latitude, UTM, elevation and Mining Division).
- Mineralogy and alteration.

C. Getting Around in MINFILE

MINFILE information is listed by:

- Names; commodities; status (from showings to major producing mines).
- Location (NTS map, BCGS map, longitude/latitude, UTM, elevation, Electoral District, Forest District and Mining Division).
- Mineralogy and alteration.
- Deposit character, classification and type (based on BC Mineral Deposit Profiles).
- Host rock (lithology, stratigraphic names and ages).
- Geological setting (tectonic belt, terrane, physiographic area and metamorphism).
- Inventory (assays, reserves/resources and production).
- Capsule geology and work history.
- References and publications.

Common Features

Sub-Menu Tab Bar

Identification/ Location	Mineral Occurrence	Host Rock	Geological Setting	Inventory	Production	Capsule Geology/ Bibliography	Import Numbers
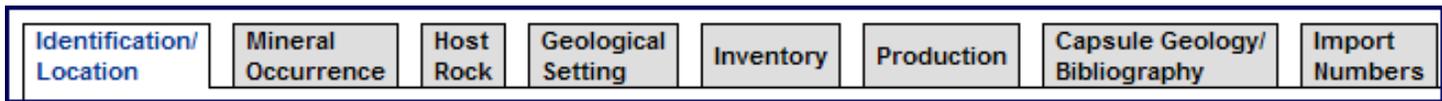
This tab bar is used on all the MINFILE/pc and MINFILE/www basic and advanced search forms as well as the MINFILE Coding Card for data entry purposes. By clicking on any of these tabs you will move to the specified section of the form.

D. General Comments on Searches in MINFILE

Search Features

MINFILE allows you to search more than 12,300 metallic mineral, industrial mineral and coal, deposits and occurrences documented in British Columbia. You have the option of performing a basic search or an advanced search. Use the hyperlink at the top right of the screen to switch between the two searches.

Note: The basic and advanced searches are two separate searches, they cannot be combined.

With MINFILE you can search by:

- Identification and location
- Mineral occurrence
- Host rock
- Geological settings
- Inventory
- Production
- Bibliography and Capsule Geology comments
- Imported MINFILE numbers file

Basic Identification/Location **or** Advanced Identification/Location **-** Allows you to search by MINFILE names, numbers, status (showings to major producing mines) and location (NTS map, longitude/latitude).

Basic Mineral Occurrence or Advanced Mineral Occurrence - Allows you to search by commodity, mineralogy and alteration, deposit character, classification and type (based on BC Mineral Deposit Profiles)

Basic Host Rock or Advanced Host Rock - Allows you to search by lithology, stratigraphic names and ages.

Basic Geological Settings or Advanced Geological Settings - Allows you to search by tectonic belt, terrane, physiographic area and metamorphism.

Basic Inventory or Advanced Inventory - Allows you to search by inventory information.

Basic Production or Advanced Production - Allows you to search by production information.

Basic Bibliography and Capsule Geology or Advanced Bibliography and Capsule Geology - Allows you to search the Bibliographic and / or capsule geology comments by entering search keywords.

Basic Import Numbers or Advanced Import Numbers - Allows you to import a series of MINFILE record numbers to use as a search filter.

Many of the basic and advanced searches in MINFILE make use of Boolean logic. This logic depends upon "And"..."Or"..."Not"... statements. In those search menus which use this logic, the search statements have been converted into sentence form in order to make them easy to understand. Just fill in the blank(s) with the code(s) of the parameter(s) that you would like to search the database on and the system will do the rest.

1. Hints for Searches in MINFILE

Of the various searches available to users of MINFILE, several provide for the ability to select from a range of valid choices. Complete lists of these descriptions and their codes can be found in Appendices A, B, C, D, E, and F of this manual. See specific searches for details.

2. Between Searches

Notice that after you do a search, the "Search Filter Criteria" and "Number of Records Returned" is displayed at the top of the search result screen. If it does not change, then your search criteria have not narrowed the database or you have made an error.

For both basic and advanced searches, after each search, this number will either remain the same (if all occurrences met the search criteria) or become smaller (if the search narrowed the field of acceptable data). If the number goes to "0" then no data meets the criteria you specified or you have made an error.

To begin a new advanced search with the complete dataset, you need to hit the **Return to Search** button and you should be back to the Total Records equal to that of the complete dataset. If you are not then hit the **Clear** button.

To begin a new basic search with the complete dataset, you need to hit either the **New** button and you should be back to the Total Records equal to that of the complete dataset. If you are not then hit the **Clear** button.

HINT: If you would like to keep a record of these search results, you can either generate a report (MINFILE Reports, Chapter IV) or create a search file from MINFILE/www that can be imported back into MINFILE/pc at a later time (see Import Search File, Chapter III, Section K).

3. Limitations to MINFILE Searches

There are some limitations to the searches performed by MINFILE/pc and MINFILE/www. While these are not of great concern, it pays to keep them in mind when you are interpreting the results of your searches.

The first of these is MINFILE/pc's inability to distinguish between the various levels of ranked data. For example, each MINFILE occurrence may contain numerous significant minerals, which are stored in the database in descending order of importance. The first commodity for each occurrence is called the primary commodity, and is recognized as such by the system. However, any other commodity for that occurrence is treated as equal, whether it is second on the list, or eleventh.

It is also important to note that all commodities reported for an occurrence need NOT be economically viable. In effect, the MINFILE data includes occurrences with very small amounts of a commodity, just as it includes occurrences with commercially valuable amounts of a commodity. There is no distinction made (except in the status designation) between the two, this judgment is up to you!

Another limitation to the searches occurs in the "Deposits with production" search. It is important to remember that this search does NOT require that each of the occurrences "found" have production figures for every year in the range you specify. Similarly, deposits selected by this search are not restricted to those with production only in the years you specify. For example, if you enter the range 1980 to 1990, MINFILE will select all occurrences that have recorded production in any of those years but not necessarily

all of them.

None of these limitations are "crippling", as long as you remember that they exist, and take them into account when you are interpreting search results. It is highly recommended that you refer to the MINFILE Coding Manual for the rules and regulations applied to the data collection.

4. Executing MINFILE Searches

Once you have entered all the search parameters you would like select **Search** to begin the search.

To continue searching on Previous Results - This option allows you to search the MINFILE database, using a number of criteria to isolate specific mineral occurrences.

5. Wild Cards in Searches

The wildcards % and _(underscore) will work with MINFILE Name, Number and NTS Map searches.

If you precede a word with %, the search will return occurrences which have that word anywhere within the field. For example, %Poll will find names like POLLY, APOLLO, and MOUNT POLLEY. And %2F will find NTS maps like 082F02W.

If you precede a word with _ (underscore), the search will return occurrences which begin with any character followed by the word. For example, _OAT will find names like GOAT or BOAT. And _OLD will find names like GOLD, HOLD, GOLDEN, GOLD DUST, but will not find OLD GOLD.

There are 4 characters that can be used as wildcards, the % symbol mentioned above is used for finding multiple letter alternatives, while the underscore (_) character is used for finding one letter alternatives. The other two characters are "?" and "*". "?" is the equivalent of (_) and "*" is the equivalent of "%".

6. Returning to the Main System Menu

From MINFILE/pc: When you are finished searching the database, select **Return to Search** and **Close** to take you back to the Main System Menu or select **Choose Report to Print** to see a preview with an option to print the summary information.

From MINFILE/www: When you are finished searching the database, select **New Search** or select a **Report** and then **Print Preview** to see a preview with an option to print the summary information.

E. MINFILE Reports

There are several different types of reports from both MINFILE/pc and MINFILE/www. Reports can be printed in PDF or MS Word format. Select the report you want to generate from the pull-down menu in the top right-hand corner of the screen and select **Print Preview**. A preview of the report will be sent to the screen. The report can be viewed or printed from the preview.

NOTE: The MINFILE Detailed report will take longer to generate than any of the other reports. This is because it contains substantially more information.

HINT: You can advance or move backwards through the Preview of a report using the arrow keys in the preview screen. The total number of pages will be indicated. Eg. 1/3 means you are on page 1 of 3 pages.

1. Reports Sent to the Printer

If you would like to have a paper copy of a report, select the printer icon (top left icon on grey bar) from the preview menu. This option will send the report to whatever type of printer is connected to your computer.

2. Report Type

Select the choice which corresponds with the type of report you would like to generate. For a description of each available report type, see the section entitled MINFILE Reports (Chapter IV). Also, a sample of each available report is included as Appendix K to this manual.

F. Code Table Maintenance

The code tables are maintained by the BC Geological Survey in Victoria. Users may request the addition of new codes. These requests will be reviewed by a staff geologist and if approved, added to the MINFILE corporate database. For further information on Code Tables refer to Chapter VI. Code Table and User Maintenance/Administration.

IMPORTANT: Users should NOT attempt to edit the MINFILE codes, as this may lead to corruption of the database and cause inconsistencies with the corporate version.

G. General Comments on Data Entry

Data Entry is done exclusively online via MINFILE/www and it's MINFILE Coding Card. BC Geological Survey staff (see contacts in Chapter VII) and pre-authorized users are permitted to make revisions to the corporate MINFILE database. To obtain authorization to capture mineral occurrence data online please contact Laura.DeGroot@gov.bc.ca with the BC Geological Survey.

The Data Entry component is equipped with numerous edit checks that will help you use it. These checks will prevent you from leaving the system before you have submitted any changes you have made. They will also prevent you from making any changes which do not meet the requirements (locations outside of B.C., for example). All you need to do is keep an eye on the message bar at the top of the screen once you hit save. It will advise you of problems you might encounter in Data Entry. All changes will be reviewed by a designated Ministry Approver and either accepted or rejected for further information (via email).

The MINFILE/www online Coding Card has its own Help screens which provide basic information on the data entry functions.

MINFILE User's Manual - Chapter III
Searching the MINFILE Database

A. Basic MINFILE Search (see Sections D through N for details by search topic).
NOTE: This search cannot be combined with an advanced search.

B. Advanced MINFILE Search (see Sections D through N for details by search topic)
NOTE: This search cannot be combined with a basic search.

C. Search Results

D. Identification Location Tab Search
   - Basic - MINFILE Name, MINFILE Number, BCGS Map, NTS Map, Latitude, Longitude, NAD
   - Advanced - MINFILE Name, MINFILE Number, BCGS Map, NTS Map, Latitude, Longitude, NAD, NMIN, Status, Mining Method,
            Region, UTM Zone/Northing/Easting, Electoral District, Forest District, Mining Division, Elevation, Location
            Certainty, Field Check, Location Comments

E. Mineral Occurrence Tab Search
   - Basic - Commodity, Significant Minerals, Associated Minerals, Alteration, Deposit Type, Deposit Character, Deposit
            Classification, Age of Mineralization
   - Advanced - Commodity, Significant Minerals, Associated Minerals, Alteration, Alteration Type, Age of Mineralization, Deposit
            Character, Deposit Classification, Isotopic Age, Material Dated, Dating Method, Deposit Type, Shape of Deposit,
            Shape Modifier, Deposit Dimension, Attitude Strike, Attitude Dip, Attitude Trend, Attitude Plunge, Mineral
            Occurrence Comments

F. Host Rock Tab Search
   - Basic - Rock Type, Rock Modifier, Formal Host, Informal Host, Stratigraphic Age
   - Advanced - Dominant Host, Lithologies (Rock Type, Rock Modifier), Formal Host (Group, Formation, Stratigraphic Age), Isotopic
            Age, Dating Method, Material Dated), Informal Host (Igneous/Metamorphic/Other, Stratigraphic Age, Isotopic Age,
            Dating Method, Material Dated), Host Rock Comments

G. Geological Settings Tab Search
   - Basic - Tectonic Belt, Terrane
   - Advanced - Tectonic Belt, Physiographic Region, Terrane, Metamorphism (Type, Relationship, Metamorphic Grade),
            Geological Setting Comments

H. Inventory Tab Search
   - Basic - Commodity, Resource Categories, Reserve Categories, Other
   - Advanced - Inventory (Zone, Year, Category, Quantity, Calculation, Report On, NI43-101, Sample Type), Commodity, Grades,
            References, Inventory Comments

I. Production Tab Search
   - Basic - Commodity, Year of Production, Tonnes Mined/Milled Annually
   - Advanced - Production Year, Tonnes Mined, Tonnes Milled, Commodity, Kilograms Recovered, Production Comments

J. Capsule Geology/Bibliography Tab Search
   - Basic - Capsule Geology text, Bibliography text, Comments (Identification, Structural, Significant Mineral, Associated Mineral,
            Alteration Mineral, Host Rock, Geological Setting, Inventory/Reference, Production)

- [Advanced](#) - [Capsule Geology text](#), [Bibliography text](#)

K. [Import Numbers Tab Search for Basic and Advanced Searches](#) - Import list of MINFILE Numbers
from File

L. Sample MINFILE Basic Searches by
- MINFILE Name - on [single MINFILE Name](#), [partial MINFILE Name](#)

M. Sample MINFILE Advanced Searches by
- MINFILE Name - on [exact MINFILE Name](#), [partial MINFILE Name](#), [primary MINFILE Name](#)
- MINFILE Number - [one MINFILE Number](#), [range of MINFILE Numbers](#)
- Commodity - on [one commodity](#)

N. [To continue searching on Previous Results](#) - This option allows you to search the MINFILE database,
using a number of criteria to isolate specific mineral occurrences.

A. Basic MINFILE Search

Basic Search Features

The Basic search is divided into 8 easy to use tabs. The basic search opens on the Identification and Location tab.

Features

- Search parameters are divided logically by function.

- Each tab contains multiple fields to search on.

- Not every record will have every field populated. Eg. Some records may not have a Deposit Type,
Inventory data, or Production data, etc.

- Allows you to select search criteria from multiple tabs.

- Allows you to search on any combination of search criteria on any or all of the tabs at the same time.

- All the fields you selected on each tab are submitted when you click **Search**.

- Consists of the same series of tabs as found on the Coding Card.

Using the Basic Search

1. Select the search tab (if you don't want to start on the Identification and Location tab).

2. Make your selection(s) using the text boxes, list boxes and radio buttons.
3. Make as many selections as you want and select as many tabs as you want.
(All the fields you select on each tab are submitted when you click search).
4. Click **Search**.
5. The Search Results Summary screen opens with your search results displayed in summary form.

From the Search Results Summary screen you have the option to

1. View a summary of the record by clicking on the **MINFILE number;**

2. View a complete report of the record by clicking on the **first MINFILE name**;

3. In the Status column, click on **Inventory Report** or **Production Report** to get a full report on inventory or production. If there is no report indicated in this column for inventory or production then that means that there is no inventory or production data for that specific record.

4. View the record on a map in the MapPlace by clicking on the **Latitude/Longitude coordinates**.

4. Click **Refine your search** to search again on your previous search results. You are returned to your previous search tab with all your search criteria saved. Select additional search criteria(s) and click **Search** again.or

5. Click **New Search** to start a new search. You are returned to your previous search tab with all search criteria deleted. You are ready to start a new search.

Radio Button Search Modifiers

Use the radio buttons to include or exclude criteria.

Primary - will return results that match the criteria selected if it is ranked 'primary'.

All - will return results that match all of the criteria selected.

Any - will return results that match at least one of the criteria selected.

 Any is the default if no other button is selected

Not - will return results that do not match the criteria selected.

For Example:

Selecting the commodity Gold, then selecting:

Primary - the search will only return occurrences that have a primary commodity of Gold (ie. gold is the first commodity mentioned in the list of commodities for that specific occurrence).

All - the search will return all occurrences that have the commodity Gold (anywhere in the commodity listing for that specific occurrence).

Any - the search will return any occurrence that has the commodity Gold.
Note: When only searching on one criteria - All and Any will return the same results.

Not - the search will return all occurrences that do NOT have a commodity of Gold.

Selecting Multiple Criteria

To make multiple selections in the same list box use ***Ctrl-Click***.

For Example:

Using Ctrl-Click to select the commodities Agate and Garnet, then selecting:

Primary - the search will only return occurrences that have a primary commodity of either Agate OR Garnet.

All - the search will only return occurrences that have commodities of Agate AND Garnet.

Any - the search will return occurrences that have commodities of Agate OR Garnet

Not - the search will return all occurrences that do NOT have commodities of Agate OR Garnet.

Note: Basic and Advanced searches are two separate searches, they cannot be combined. A link at the top of the page takes you to the Advanced Search screen where you can start a new advanced search.

B. Advanced MINFILE Search

Advanced Search Features

The advanced search allows you to add search filters and perform multiple searches on previous search results.

Advanced Search Quick Tips

1. **Always select or enter the search criteria first, before selecting a filter.**

2. **Select an optional filter (Primary / Not).**
   - Select the **Primary** check box if only searching on primary.
   - Select the **Not** check box to exclude the criteria from the search.

3. **Select a mandatory filter (And / Or).**
   - Click **And** to search for the criteria specified.
   - Click **Or** to search for either field specified when searching multiple criteria.

4. Then click **Search**.

Note: For every search criteria selected, the mandatory search filter is required.

Advanced Search Screen

- Offers far more flexibility and power for searching the Mineral Occurrence records
- Iterative filter features
- Allows you to search on any field any number of times
- A link at the top-right of the page allows you to switch to the Basic Search screen

Using Search Filters

The advanced search tabs feature the use of search filters. The search filters in use are displayed in the top left corner of the screen and beside the fields selected.

The first time you open the Advanced Search, the message "There is no Search Filter!" is displayed above the search tabs.

Advanced Search Filters

To search for a Mineral Occurrence

1. Type your search criteria in the text box or select from the list box.
2. Select an optional search filter checkbox (**Not / Primary**).

- Not - excludes the field specified from the search.

- Primary - searches only for Primary occurrence.

3. Click the mandatory search filter you want to use (And / Or).

- And - searches for that field specifically.

- Or - searches for either field specified (when searching on multiple criteria).

Note: If only searching on one criteria And and Or will return identical results.

If you've returned to the Advanced Search tabs your previous search filters are displayed in red at the top
of the screen above the search results.

You may search the results again using a new filter (or combinations of filters) by clicking **Modify Search**.

MINFILE Advanced Search		? Hints and Tips for Advanced Search					Search	
Total Records: 12220		? Sample Searches						
Unfiltered: 12220 Records						Clear Current Filter		
Filter #1: (Filtered by Dominant Host/And Volcanic /)						Clear All Filter		
						Switch to basic search		
Identification/ Location	Mineral Occurrence	Host Rock	Geological Setting	Inventory	Production	Capsule Geology/ Bibliography	Import Numbers	
HOST ROCK						Host Rock Help ?		
						Not		
Dominant Host		Volcanic			▾ And Or ☐	And Volcanic		

Clear Search Filters

Clear All Filter(s)

1. To start a new advanced search click *Clear All Filter(s)*.
2. This clears all previous search criteria and search filters.

You may now start a new search by entering the new search criteria and selecting filter.

Clear Current Filter

When using multiple searches use *Clear Current Filter* to clear previous search filters.

To clear only the last search filter used:

1. Click *Clear Current Filter*.
2. The last filter is cleared.

To clear more than one previous filter:

1. Click on the search filter displayed on the left side of the screen above the tabs.
2. Click *Clear Current Filter*.
3. The selected search filters are deleted.

For example:

If there are five previous search filters selected and you click on the third filter - filters three, four and five are all cleared.

You may now search again on your original search results from filters one and two.

Note: The *Clear Current Filter* can also be used to clear the screen you're working on if you've made a selection error.

Change Current Filter

When you have multiple filters present you have the option to select and clear any one of them without having to use the Clear Current Filter in the order listed.

For example: There are three filters in the sample below. If you want to modify your search to remove just Filter #2 then highlight Filter #2 you will return to the Advanced Search Screen and Filter #2 will be your current filter. Now you can hit *Clear Current Filter* to remove Filter #2.

MINFILE Mineral Inventory - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

Back   ×   Search   Favorites

Address http://minfile.gov.bc.ca/searchResults.aspx   Go   Links

- Ministry Home   - Government of British Columbia

Programs & Services

Ministry of
**Energy, Mines and
Petroleum Resources**

Help ?

Ministry News | Ministry Search | Reports & Publications | Site Map | Contacts

MINFILE Home page   ARIS Home page   MINFILE Search

MINFILE Search Results

Total Records: 12301

Print Preview   PDF ▾   -- SELECT REPORT -- ▾   ☑ New Window

Download   SELECT DOWNLOAD ▾

Show Results on MapPlace   Modify Filters

Click Below To Edit Existing Filters

Filter#1 (81 record(s) returned):(Filtered by MINFILE Name /And like joh/)

And Filter#2:(Filtered by NTSMap Sheet /And like 082/)

And Filter#3 (4 record(s) returned):(Filtered by Status /And Past Producer/)

Click a field header to sort by the field

MINFILE Number	Names	Status	Commodities	NTS Maps	Latitude Longitude (NAD 83)	Deposit Types
082ESW010	GRANDORO ORO FINO (L.1448) INDEPENDENCE (L.1449) OROFINO GRANDORO (L.3109S) KING JOHN B.E.	Past Producer ■ Inventory Report	Gold, Silver, Lead, Zinc	082E05E	49 ° 15' 44" N 119° 40' 53" W	I05:Polymetallic veins Ag-Pb-Zn+/-Au I01:Au-quartz veins
082FNW060	MAMMOTH (L.13572) MONARCH (L.13571) MOOSE (L.13573) HIGHORE (L.13574) HERCULES (L.13575) HECLA (L.13576) MINORA (L.11735) ROBIN JOHN OPATUNKA	Past Producer	Silver, Zinc, Lead, Cadmium, Gold, Copper	082F14W	49 ° 57' 34" N 117° 17' 23" W	I05:Polymetallic veins Ag-Pb-Zn+/-Au

Internet

Search Not Returning Expected Results

If your search did not work, or did not return the results you expected:

- Check the search filters displayed at the top of the page, you may have old search filters.
- Check that the filters displayed next to the fields are the filters you wanted to use.
- Be sure you entered the correct search criteria.
- Due to the number of possible search combinations that can be selected at the same time, it is possible
that there are no occurrences that match all your selected criteria.

If your search returned all the MINFILE records in the database:

- Be sure you clicked a mandatory search filter (AND/OR) before clicking **Search**.

C. Search Results

This page returns the results requested in the search. The criteria used in the search appears in a table at
the top of the page.

If more than one record is found that matches the search criteria, all the records are returned.

The following fields are returned with every search:

MINFILE Number
Names
Status
Commodities
NTS Maps
Latitude/Longitude
Deposit Types

MINFILE Search Results

Print Preview | PDF ▾ | -- SELECT REPORT -- ▾ | ☐ New Window
Download | SELECT DOWNLOAD ▾
Refine Search | New Search

Total Records: 12216

Unfiltered: 12216 Records
Filter #1: 11 Records (Filtered by MINFILE Name/And Like Minnie/)
Filter #2: 6 Records (Filtered by Commodity/And Gold/)

Click a field header to sort by the field

MINFILE Number	Names	Status	Commodities	NTS Maps	Latitude Longitude (NAD 83)	Deposit Types
082ESE062	EMMA (L.591) MOUNTAIN ROSE (L.794)	Past Producer Production Report	Copper, Gold,	082E02E	49 ° 07' 48" N 118° 32' 58" W	Cu skarn Fe skarn

	EMMA BLUEBELL BRAYFOGLE (L.1491) JUMBO (L.592) MINNIE MOORE (L.593) BREY FOGLE SUMMIT CAMP BLUEBELL		Silver, Zinc, Germanium, Molybdenum, Cobalt			
082ESW046	MINNIE HA-HA (L.680) MINNIE-HA-HA SAILOR (L.766) GOLDEN CROWN FR. (L.924) CARIBOO FR. CARAMELIA CAMP MCKINNEY	Prospect Inventory Report	Gold, Silver, Lead, Zinc, Copper	082E03E	49 ° 06' 45" N 119° 11' 27" W	Au-quartz veins
082FNW048	CARNATION (L.575) MAIN MINNIEHAHA VIOLET (L.3168) FOOTWALL MINNIE HA HA VIOLET FR. (L.3170)	Past Producer Production Report	Silver, Lead, Zinc, Gold	082F14W	49 ° 57' 59" N 117° 16' 12" W	Polymetallic veins Ag-Pb-Zn+/-Au
082FSW188	HARRIET MINNIE M TULIP DEW DROP MONITOR LOT 15494	Past Producer Production Report	Gold, Silver	082F06W	49 ° 18' 48" N 117° 21' 24" W	Au-quartz veins
082GNW045	EMILY-TIGER EHLINGER MINNIE M	Past Producer Production Report	Lead, Silver, Copper, Gold	082G13E	49 ° 48' 10" N 115° 36' 59" W	Polymetallic veins Ag-Pb-Zn+/-Au
082KNE009	RUTH-VERMONT RUTH VERMONT RUTH (L.418) CHARLOTTE (L.405) MINNIE (L.419) VERMONT (L.8123) PINE TREE NELSON BLACKSMITH SOUTH NORTH SHEBA (L.8124) CLEOPATRA (L.8122) RUTH FRACTION (L.8125)	Past Producer Production Report Inventory Report	Silver, Lead, Zinc, Copper, Gold, Cadmium, Tungsten	082K15W	50 ° 56' 51" N 116° 58' 45" W	Polymetallic veins Ag-Pb-Zn+/-Au Sedimentary exhalative Zn-Pb-Ag

Viewing Records

Viewing MINFILE Records

From the Search Results Summary screen you have the option to:

1. View a summary of the record by clicking on the **MINFILE number.** From the MINFILE Record Summary you have the option to view or print individual MINFILE detail reports.

2. View a complete report of the record by clicking on the **first MINFILE name**;

3. In the Status column, click on **Inventory Report** or **Production Report** to get a full report on inventory or production. If there is no report indicated in this column for inventory or production then that means that there is no inventory or production data for that specific record.

4. View the record on a map in the MapPlace by clicking on the **Latitude/Longitude coordinates**.

5. Click **Refine your search** to search again on your previous search results. You are returned to your previous search tab with all your search criteria saved. Select additional search criteria(s) and click **Search** again.

OR

6. Click **New Search** to start a new search. You are returned to your previous search tab with all search criteria deleted. You are ready to start a new search.

Viewing Multiple Pages

Ten records are shown on the page at one time.

Tab through the pages using the **Next 10, Prev 10, First Page**, and **Last Page** hyperlinks at the bottom of the screen.

To view all records on one page select **Show all Records**.

To return to viewing ten records at a time select **Show 10 Records**.

Sorting the Search Results

You can sort or re-sort your search results by any of the field headings.

Click the field heading to sort by the selected field.

To reverse the order of the sort click the field heading again.

Multiple Searches

From the MINFILE Search Results page you can return to the search tabs and refine your search by adding new criteria and filters.

If you are in Advanced Search click *Modify Filters*.

If you are in Basic Search click *Refine Search*.

Boolean Logic with Advanced Search

MINFILE Advanced Search uses Boolean Logic Operators (AND, OR, NOT) to perform its searches. These operators allow complex, specific searches to be constructed. Many data fields can be included or excluded to help refine searches as the client desires. As the filter fields are added, the number of "hits" is marked at the beginning of the line. It is possible to zero the hits and this is where the *Clear Current Filter (s)* button is useful. Note that the number of results is only displayed after clicking *Search*.

Filter mechanics:

In order to include a field in the search filter the AND, OR buttons must be clicked. Also, the NOT check box must be selected before the AND or OR button is clicked.

The operators have specific hierarchy. AND is the first operator evaluated, OR is the second and NOT is the third. Also, the MINFILE search filter is read from left to right and the operators are evaluated in order. Note that the search criteria look to the available number of occurrences and this is especially critical when using the OR operator.

The Search button, when clicked, acts in a similar fashion to brackets in a logic statement. e.g.: (A +B) + C is the same as A AND B Search AND C Search. Also, once the search is completed, the next set of conditions will search only the subset of data. This is useful when trying to reduce the total number of results wanted. However, this also requires that complex searches be planned ahead to achieve the desired results.

The Clear buttons remove either the current filter string or all filters. In the case of clear current filter, it is removed and the dataset is returned to the previous subset, if present. Clear all filters removes everything and resets the searches to the full MINFILE database.

Examples:

Filter: AND [field1], AND [field2]
will list all occurrences where both [fields1 & 2] are present at the same

Filter: AND [field1], OR [field2]
will list all occurrences where one or the other [field] is present

Filter: AND [field1], AND NOT [field2]
will list all occurrences where both the first [field1] is present and the second field [field2] is not present.

Filter: AND [field1], OR NOT [field2]
will list all occurrences where the first [field1] is present as well as all occurrences where the second field [field2] is not present.

Refining the searches

When creating search filters, the fields are selected and placed into one line. When the search string is executed, by clicking *Search*, a subset of data is created. The next search uses only the subset of data and so works the same way as a bracket does in classic Boolean Logic. This is useful when doing

searches to narrow down the possible hits to a workable amount.

Examples: Find the Kemess mine through a Producers / Past Producers search

Search criteria as a single filter:

A) AND Producer,
B) OR Past Producer,
C) AND Kemess
Search
80 results - all producers (with Kemess included because it happens to be a producer)
Logic = {A or [B + C]}

How this search worked

This search accessed the whole of the MINFILE database for each logical operator. It looked for all mineral occurrences that were listed as a producer, condition A) - "AND" Producer, which yields 80 occurrences. The logical "OR" operator caused a search on the whole MINFILE database again to look for all occurrences that were listed as Past Producer AND Kemess. In this case there are 1954 past producers and four listed as Kemess however there are none that list both conditions simultaneously. The final result is the list of current producers, 80 occurrences. Kemess is a Producer, so happens to fall into the results listed but is not specifically selected.

Same search criteria using the search function to reduce the data evaluated:

A) AND Producer,
B) OR Past Producer,
[Search]
C) AND Kemess
Search
1 result – Kemess South is the desired result.
Logic = {A or B} + {C}

Explanation of how this search worked

This search started with the whole of the MINFILE database accessed for all occurrences that are either a Producer, condition A) or a Past Producer, condition B). Clicking *Search* executed the filter and the result is a subset of 2034 mineral occurrences. The Second filter line, condition C) – Kemess, then accessed the reduced dataset and came up with one result, the Kemess Mine. Note again that there are four occurrences with the name Kemess but by parsing out the undesired occurrences in the first filter line, the desired result was quickly established.

D. Identification Location Tab Searches:

Searching - Basic Identification Location Tab

The Identification tab is where you search by the MINFILE name, MINFILE number, status or location (using map numbers or latitude and longitude coordinates).

Identification

Field	Description
MINFILE Name	Enter the MINFILE name or partial MINFILE name.
	For partial MINFILE names the search will locate all names beginning with the partial name entered (Or letter, if you only enter one letter).
	Each mineral occurrence in the MINFILE database may have up to sixteen different names, again in descending order of importance. When searching by MINFILE name, the system considers all sixteen entries for each occurrence. This means that a search on the name Goldstream Bridge and a search on the name Bentley will select the same occurrence (092B 067) because the occurrence is known by both names.
	There is often some overlap of names. You may find that numerous MINFILE occurrences have (as one of their names) the same name as the one for which you are searching. For example, there may be 41 occurrences which contain Bonanza in their name lists. Of these, 25 have the name Bonanza and 16 have Bonanza as part of their name (for example, Bonanza Lode and Bonanza Queen). All of these will be found searching on the name Bonanza.
	If you do not know the entire name of an occurrence, you can search the database using only part of the name. For example, for an occurrence called Blueberry, you might enter only 'Blu'. All occurrences that begin with the letters "Blu", including Blueberry, Bluebell, and so on, will be selected in the search.
MINFILE Number	Enter a MINFILE number, a range of MINFILE numbers, or a range of partial MINFILE numbers to search on.
	The second text box is autofilled with the number entered. This allows you to search on one MINFILE number quickly and easily.
	NOTE: If you want specific MINFILE numbers you need to fill all nine spaces in the MINFILE Number blank (e.g. 114P__045, 082ENW025).
	To search on a range of numbers (or partial numbers) enter the new number in the second box.
	NOTE: Otherwise you can enter partial numbers, for example enter '092J' TO "092K" to select the range where all the occurrences that have 092J as the first 4 numbers will result. When searching a range of numbers the results will include all the records up to, but not including the number entered in the second box (in this example 092K would not appear in the results).
	If the second text box is left blank - your search results will include all MINFILE numbers starting with the first number entered to the last number in the whole data base.
Status	Select a status from the list box.
Location	

Field	Description
BCGS Map	Select the BCGS Map number(s) from the list box.
	OR
	To search on one BCGS Map number - enter the complete BCGS Map number in the text box. The search will return all records that have that BCGS Map number.
	To search on a range of BCGS Map numbers - enter a partial BCGS Map number in the text box.
	For example: Entering 082 in the text box will return all records with BCGS Map numbers that begin with 082.
NTS Map	Select the NTS Map number(s) from the list box.
	OR
	To search on one NTS Map number - enter the complete NTS Map number in the text box. The search will return all records that have that NTS Map number.
	To search on a range of NTS Map numbers - enter a partial NTS Map number in the text box. For example: Entering 082 in the text box will return all records with NTS Map numbers that begin with 082.
	NOTE: This function may be used to search for NTS map sheets with scales of 1:25,000 (for example NTS 094H05E). When searching by NTS map sheet number, ensure that ALL digits are entered to the desired scale.
Latitude	To search for a specific latitude or a range of latitude points select an area or 'bounding box' using two coordinate points.
	To search on a specific latitude enter the complete number in both text boxes.
	Latitude 49 ° 18 ' 47 " **To** 49 ° 18 ' 47 "
	To search on a range of coordinates enter the range or partial range in the from and to boxes.
	Latitude 49 ° ☐ ' ☐ " **To** 50 ° ☐ ' ☐ "
	The valid range in British Columbia is 48 degrees to 60 degrees.
	NOTE: You must enter at least one value in both the 'from' and 'to' boxes. Searches by latitude and longitude may be general (searching across a wide range of each) or specific (looking for specific coordinates).

Longitude	To search for a specific longitude or a range of longitude points select an area or 'bounding box' using two coordinate points.

To search on a specific longitude enter the complete number in both text boxes.

Longitude `119` ° `11` ' `02` " To `119` ° `11` ' `02` "

To search on a range of coordinates enter the range or partial range in the from and to boxes.

Longitude `119` ° ` ` ' ` ` " To `125` ° ` ` ' ` ` "

The valid range in British Columbia is 114 degrees to 140 degrees.

NOTE: You must enter at least one value in both the 'from' and 'to' boxes. Searches by latitude and longitude may be general (searching across a wide range of each) or specific (looking for specific coordinates).

NAD	Select either NAD 27 or NAD 83.

Datums:
NAD 27 (North American Datum 1927) is a geodetic reference system for North and Central America based on the Clarke 1886 reference ellipsoid point and a datum point known as Meade's Ranch in Kansas. The system originated in 1927, and was used into the early 1960's, when distortions and errors caused by distance and geographical formations became evident.

NAD 83 (North American Datum 1983) is an international project to recompute and readjust the coordinates and datum for North and Central America in order to correct the errors in NAD 27. NAD 83 is based on an earth-centred ellipsoid with no single datum point. The system is internally consistent, and the positioning of the control networks is determined by a combination of satellite data and terrestrial observations. The Province of British Columbia officially adopted NAD 83 in 1990.

When converting from NAD 27 to NAD 83, geographic and mapping plane coordinates change significantly by +0.1 to -1.1 arc-seconds in latitude and by +3.5 to +6.7 arc-seconds in longitude depending on the location in B. C. UTM (Universal Transverse Mercator) coordinates will also shift from +175 to +215 metres in Northings and from -75 to -120 metres in Eastings.

Searching - Advanced Identification Location Tab

Identification

Field	Description

MINFILE Name	Enter the MINFILE name or partial MINFILE name.
	If a partial name or letter is entered - the search will return all names beginning with the partial name or letter entered.
MINFILE Number	Enter a MINFILE number, a partial MINFILE number or a range of MINFILE numbers to search on.
	When you enter a MINFILE number in the 'from' box the 'to' box is autofilled with the number entered. This allows you to search on one MINFILE number quickly and easily.
	To search on a range of numbers manually enter the second number in the 'to' box.
	If the 'to' box is left blank - your search will return all MINFILE numbers from the number entered.
NMIN	Enter a NMIN number (National Mineral Inventory Number).
Status	Select one or more status types from the list box.
	NOTE: Each MINFILE occurrence is assigned one of seven status designations.
	The Anomaly status designation will not contain any occurrences from the distributed MINFILE database. This designation is meant to be a holding place for temporary occurrences or occurrences of interest that do not have documented in-situ mineralization.
Mining Method	Select a mining method from the list box.
Region	Select a region from the list box.

Location

Field	Description
Latitude	To search for a specific latitude or a range of latitude points select an area or 'bounding box' using two coordinate points.
	To search on a specific latitude enter the complete number in both text boxes.

To search on a range of coordinates enter the range or partial range in the 'from' and 'to' boxes.

The valid range in British Columbia is 48 degrees to 60 degrees.

NOTE: You must enter at least one value in both the 'from' and 'to' boxes. Searches by latitude and longitude may be general (searching across a wide range of each) or specific (looking for specific coordinates).

Longitude

To search for a specific longitude or a range of longitude points select an area or 'bounding box' using two coordinate points.

To search on a specific longitude enter the complete number in both text boxes.

Longitude 119 ° 11 ' 02 " To 119 ° 11 ' 02 "

To search on a range of coordinates enter the range or partial range in the from and to boxes.

Longitude 119 ° ☐ ' ☐ " To 125 ° ☐ ' ☐ "

The valid range in British Columbia is 114 degrees to 140 degrees.

NOTE: You must enter at least one value in both the 'from' and 'to' boxes. Searches by latitude and longitude may be general (searching across a wide range of each) or specific (looking for specific coordinates).

NAD

NAD 83 is the default.

To search on NAD 27 coordinates click the NAD 27 radio button.

NOTE: The UTM search requires minimum and maximum values.

Datums:
NAD 27 (North American Datum 1927) is a geodetic reference system for North and Central America based on the Clarke 1886 reference ellipsoid point and a datum point known as Meade's Ranch in Kansas. The system originated in 1927, and was used into the early 1960's, when distortions and errors caused by distance and geographical formations became evident.

NAD 83 (North American Datum 1983) is an international project to recompute and readjust the coordinates and datum for North and Central America in order to correct the errors in NAD 27. NAD 83 is based on an earth-centred ellipsoid with no single datum point. The system is internally consistent, and the positioning of the control networks is determined by a combination of satellite data and terrestrial observations. The Province of British Columbia officially adopted NAD 83 in 1990.

When converting from NAD 27 to NAD 83, geographic and mapping plane coordinates change significantly by +0.1 to -1.1 arc-seconds in latitude and by +3.5 to +6.7 arc-seconds in longitude depending on the location in B.C. UTM (Universal Transverse Mercator) coordinates will also shift from +175 to +215 metres in Northings and from -75 to -120 metres in Eastings.

UTM Zone	Select a UTM zone from the list box.
	The valid range in British Columbia is between 7 and 11. The UTM search requires minimum and maximum values for the northing and easting fields.
	NOTE: These searches are similar to latitude/longitude searches. If you would like to search for occurrences using Universal Transverse Mercator coordinates, please ensure that the values you enter are valid for searching the data. Searches must be made within a single UTM Zone.
Northing	Enter the Northing number, a partial number or a range of numbers to search on.
	When you enter a Northing number in the 'from' box the 'to' box is autofilled with the number entered. This allows you to search on one number quickly and easily.
	To search on a range of numbers manually enter the second number in the 'to' box.
	The valid range in British Columbia is from 5350000 to 6652000.
Easting	Enter the Easting number, a partial number or a range of numbers to search on.
	When you enter an Easting number in the 'from' box the 'to' box is autofilled with the number entered. This allows you to search on one number quickly and easily.
	To search on a range of numbers manually enter the second number in the 'to' box.
	The valid range in British Columbia is from 290000 to 710000.
Electoral District	Select an electoral district from the list box.
Forest District	Select a forest district from the list box.
NTS Map	On this search you will see two distinct NTS Map searches. The first option (**NTS Map**) allows for you to select an NTS map number from the list box.
	-OR-
	The second option (**NTS Map Like**) allows for you to search on a range of NTS Map numbers - by entering a partial NTS Map number in the text box.
	To search on one NTS Map number - enter the complete NTS Map number in the text box. The search will return all records that have that NTS Map number.
	For example: Entering 082 in the text box will return all records with NTS Map numbers that begin with 082. Entering 104A will return all records with NTS Map numbers that begin with 104A.
	NOTE: This function may be used to search for NTS map sheets with scales from 1:1,000,000 (for example NTS 094), ranging to 1:25,000 (for example NTS 094H05E). When searching by NTS map sheet number, ensure that ALL digits are entered to the desired scale. For example, enter '092', not '92'. If only two digits are entered where three are needed, the search will be unsuccessful.

BCGS Map	Select a BCGS map number from the list box.
	-OR-
	To search on one BCGS Map number - enter the complete BCGS Map number in the text box. The search will return all records that have that BCGS Map number.
	To search on a range of BCGS Map numbers - enter a partial BCGS Map number in the text box.
	For example: Entering 082 in the text box will return all records with BCGS Map numbers that begin with 082.
Mining Division	Select the mining division from the list box.
	NOTE: A listing of valid Mining Division codes can be found in Appendix A of this manual.
Elevation	Enter the numeric elevation to search on (in metres).
Location Certainty	Select a location certainty from the list box.
Field Check	Select the field check radio button to search on occurrences that have been field checked.
	The default is not field checked.
Location Comments	Search on location comments by entering search keywords or partial keywords in the text box.
	Keywords can be
	- words
	- partial words
	- numbers
	- dates
	- abbreviations
	- any combination of the above
	Keywords not in a string have to be entered as separate filters, a comma will not work in this field.
	NOTE: When searching comments by keyword or partial keywords your search results will include every record that has the word or partial word anywhere in a sentence.

E. Mineral Occurrence Tab Search

Searching - Basic Mineral Occurrence Tab

The Mineral Occurrence tab allows you to search by commodity, mineralogy and alteration, deposit character, classification and type (based on BC Mineral Deposit Profiles).

Mineral Occurrence

Field	Description
Commodity	Select a commodity from the list box.
	Use Ctrl-Click to select multiple commodities.
	NOTE: The commodity list for each occurrence is arranged in descending order of importance. In the database, commodities are stored in order of importance even though the searches are not designed to recognize this order. For each occurrence, there may be numerous commodities listed; the Primary Commodity would be at the head of the list. A list of these codes can be found in Appendix B of this manual. Commodity grades for precious metals are expressed in grams per metric tonne, while grades for other commodities are expressed in percentages.

Minerals

Field	Description
Significant	Select a significant mineral to search on from the list box (e.g. Chalcopyrite).
	Use Ctrl-Click to select multiple significant minerals.
Associated	Select a mineral that may be associated with a significant mineral (e.g. quartz).
	Use Ctrl-Click to select multiple associated minerals.
Alteration	Select an alteration mineral from the list box (e.g. chlorite).
	Use Ctrl-Click to select multiple mineral alterations.

Deposit

Field	Description

Deposit Code

-OR-   Select either a deposit code or a deposit description from the list box.

Description
Character   Select a deposit character from the list box.

                                              Use Ctrl-Click to select multiple deposit characters.

                                              NOTE: This data is also ranked in descending order of importance, with up to 4 entries in each of the Character
                                              categories. The search on Character will bring up all results for that character type no matter what the rank in an
                                              occurrence.

Classification   Select either a deposit classification from the list box.

                                              Use Ctrl-Click to select multiple deposit classifications.

                                              NOTE: This data is also ranked in descending order of importance, with up to 4 entries in each of the Classification
                                              categories. The search on Classification will bring up all results for that classification type no matter what the rank
                                              in an occurrence.

Age of Mineralization   Select the mineralization age from the list box.

                                              Use Ctrl-Click to select multiple mineralization ages.

                                              NOTE: The Stratigraphic Age Codes are listed in Appendix D of this manual.

Searching - Advanced Mineral Occurrence

The Mineral Occurrence tab allows you to search by commodity, mineralogy, alteration, deposit character,
classification and type (based on BC Mineral Deposit Profiles).

Advanced Search Quick Tips

1. **Always select or enter the search criteria first, before selecting a filter.**

2. **Select an optional filter (Primary / Not).**
   - Select the **Primary** check box if only searching on primary.
   - Select the **Not** check box to exclude the criteria from the search.

3. **Select a mandatory filter (And / Or).**
   - Click **And** to search for the criteria specified.
   - Click **Or** to search for either field specified when searching multiple criteria.

4. Then click Search.

Note: For every search criteria selected, the mandatory search filter is required.

Mineral Occurrence

Field	Description
Commodity	Select a commodity from the list box. NOTE: The commodity list for each occurrence is arranged in descending order of importance. In the database, commodities are stored in order of importance even though the searches are not designed to recognize this order. For each occurrence, there may be numerous commodities listed; the Primary Commodity would be at the head of the list. A list of these codes can be found in Appendix B of this manual. Commodity grades for precious metals are expressed in grams per metric tonne, while grades for other commodities are expressed in percentages.

Minerals

Field	Description
Significant	Select a significant mineral to search on from the list box (e.g. chalcopyrite).
Associated	Select a mineral that may be associated with a significant mineral (e.g. quartz).
Alteration	Select an alteration mineral from the list box (e.g. chlorite).
Alteration Type	Select an alteration type from the list box.
Age of Mineralization	Select an age of mineralization from the list box.

Deposit

Field	Description
Character	Select a deposit character from the list box. Select the character rank from the list box. If rank is not selected - the default is any rank.
Classification	Select the deposit classification from the list box. Select the classification rank from the list box. If rank is not selected - the default is any rank.
Isotopic Age	Enter the isotopic age in the text box.
Material Dated	Enter the material dated information in the text box.
Dating Method	Select a dating method from the list box.
Deposit Type	Select a deposit type from the list box. NOTE: This data is also ranked in descending order of importance, with up to 4 entries for each occurrence. **The Primary search will search on the Deposit Type ranked as the most important and listed first**. A complete list of the Deposit Types, which are based on the BC Geological Survey's Mineral Deposit Profiles, is included in Appendix E.
Shape of Deposit	Select a deposit shape from the list box.

Shape Modifier	Select a deposit modifier from the list box.
Deposit Dimension	Enter the exact deposit dimensions to search on. (Must be numeric).

If you only enter one dimension field to search on the other fields will automatically default to zeros.

Example: Entering from 100 to 200 degrees

From `100` **x** `   ` **x** `   ` **To** `200` **x** `   ` **x** `   `

Will default to:

From `100` **x** `0` **x** `0` **To** `200` **x** `0` **x** `0` **And** **Or** ☐ And 100X0X0 to 200X0X0

NOTE: The search will NOT return all records that fall within that range. Only records that fall in between 100 and 200 degrees AND have matching zero minutes and seconds. In this search example a record with deposit dimensions of 180x0x0 will be returned but not a record with dimensions of 175x85x50.

Degrees, minutes and seconds are each separate ranges within the search.

Attitude Strike	Enter the attitude strike in the text box.
Attitude Dip	Enter the attitude dip in the text box.
Attitude Trend	Enter the attitude trend in the text box.
Attitude Plunge	Enter the attitude plunge in the text box.
Mineral Occurrence Comments	Search on mineral occurrence comments by entering search keywords or partial keywords in the text box.

Keywords can be

- words
- partial words
- numbers
- dates
- abbreviations
- any combination of the above

Keywords must be separated by a comma (,).

NOTE: When searching comments by keyword or partial keywords your search results will include every record that has the word or partial word anywhere in a sentence.

F. Host Rock Tab Search

Searching - Basic Host Rock Tab

The Host Rock Tab allows you to search by one or more rock types, rock modifiers, formal hosts, informal hosts and stratigraphic age.

NOTE: Mineral occurrences often have a stratigraphic host and an associated plutonic host. See Appendix D for a complete list of
Stratigraphic Host codes.

Host Rock

Field	Description
Rock Type	Select one or more rock types from the list box. Use Ctrl-Click to make multiple selections.
Rock Modifier	Select one or more rock modifiers from the list box. Use Ctrl-Click to make multiple selections.
Formal Host	Select a Formal Host from the list box. Use Ctrl-Click to make multiple selections.
Informal Host	Select an Informal Host from the list box. Use Ctrl-Click to make multiple selections.
Stratigraphic Age	Select a Stratigraphic Age from the list box. Use Ctrl-Click to make multiple selections. NOTE: The Stratigraphic Age Codes are listed in Appendix D of this manual.

Searching - Advanced Host Rock Tab

NOTE: Many mineral occurrences often a stratigraphic host and an associated plutonic host. See Appendix D for a complete list of
Stratigraphic Host codes.

Advanced Search Quick Tips

1. **Always select or enter the search criteria first, before selecting a filter.**

2. **Select an optional filter (Primary / Not).**
   - Select the **Primary** check box if only searching on primary.
   - Select the **Not** check box to exclude the criteria from the search.

3. **Select a mandatory filter (And / Or).**
   - Click **And** to search for the criteria specified.
   - Click **Or** to search for either field specified when searching multiple criteria.

4. Then click Search.

Note: For every search criteria selected, the mandatory search filter is required.

Host Rock

Field	Description
Dominant Host	Select a dominant host from the list box.

Lithologies

Field	Description
Rock Type	Select a rock type from the list box.
	NOTE: For a listing of acceptable rock-type codes, see Appendix C of this manual.
Modifier	Select a modifier from the list box.
	NOTE: A list of valid rock modifier codes is attached to the list of rock codes in Appendix C.

Formal Host

Field	Description
Group	Select a group from the list box.
Formation	Select a formation from the list box.
Stratigraphic Age	Select a stratigraphic age from the list box.
Isotopic Age	Type the isotopic age into the text box.
Dating Method	Select a dating method from the list box.
Material Dated	Type the material dated into the text box.

Informal Host

Field	Description
Igneous/Metamorphic/Other	Select an igneous/metamorphic/other selection from the list box.
Stratigraphic Age	Select a stratigraphic age from the list box.
Isotopic Age	Type the isotopic age into the text box.
Dating Method	Select a dating method from the list box.
Material Dated	Type the material dated in the text box.
Host Rock Comments	Search on host rock comments by entering search keywords or partial keywords in the text box. Keywords can be - words - partial words - numbers - dates - abbreviations - any combination of the above Keywords not in a string have to be entered as separate filters, a comma will not work in this field. NOTE: When searching comments by keyword or partial keywords your search results will include every record that has the word or partial word anywhere in a sentence.

G. Geological Settings Tab Search

Searching - Basic Geological Settings Tab

The Geological setting tab allows you to search by any combination of tectonic belt and terrane.

Geological Setting

Field	Description
Tectonic Belt	Select one or more tectonic belt checkboxes. You may select as many as you want to search on. Note: Selecting all checkboxes will return the entire database.

Terrane   Select one or more terrane from the list box.

                                                 Use Ctrl-Click to select multiple terranes.

                                                 NOTE: The terrane codes are listed in Appendix A of this manual. (WARNING: some occurrences currently do not contain this information).

Searching - Advanced Geological Settings Tab

Advanced Search Quick Tips

1. **Always select or enter the search criteria first, before selecting a filter.**

2. **Select an optional filter (Primary / Not).**
   - Select the **Primary** check box if only searching on primary.
   - Select the **Not** check box to exclude the criteria from the search.

3. **Select a mandatory filter (And / Or).**
   - Click **And** to search for the criteria specified.
   - Click **Or** to search for either field specified when searching multiple criteria.

4. Then click Search.

Note: For every search criteria selected, the mandatory search filter is required.

Geological Setting

Field	Description
Tectonic Belt	Select a tectonic belt from the list box. NOTE: A list of these codes may be found in Appendix A of this manual. (WARNING: some occurrences currently do not contain this information).
Physiographic Region	Select a physiographic region from the list box. NOTE: A complete list of these codes may be found in Appendix A of this manual. (WARNING: some occurrences currently do not contain this information).
Terrane	Select a terrane from the list box.

Metamorphism

Field	Description
Type	Select a type from the list box.
Relationship	Select a relationship from the list box.

Metamorphic Grade	Select a metamorphic grade from the list box.
Geological Setting Comments	Search on geological setting comments by entering search keywords or partial keywords in the text box.

Keywords can be:

- words
- partial words
- numbers
- dates
- abbreviations
- any combination of the above

Keywords not in a string have to be entered as separate filters, a comma will not work in this field.

NOTE: When searching comments by keyword or partial keywords your search results will include every record that has the word or partial word anywhere in a sentence.

H.   Inventory Tab Search

Searching - Basic Inventory Tab

Allows you to search by inventory data associated with an occurrence.

Inventory

Field	Description
Commodity	Select one or more commodities from the list box. Use Ctrl-Click to make multiple selections. A list of these codes can be found in Appendix B of this manual. Commodity grades for precious metals are expressed in grams per metric tonne, while grades for other commodities are expressed in percentages.
Resource Categories	Select one or more resource category check boxes. Use carriage return to input new search string.
Reserve Categories	Select one or more reserve category check boxes. Use carriage return to input new search string.
Other	Select one or more other category check boxes. Use carriage return to input new search string.

NOTE: Selecting all the checkboxes will return all records that have inventory data.

Searching - Advanced Inventory Tab

Advanced Search Quick Tips

1. **Always select or enter the search criteria first, before selecting a filter.**

2. **Select an optional filter (Primary / Not).**
   - Select the **Primary** check box if only searching on primary.
   - Select the **Not** check box to exclude the criteria from the search.

3. **Select a mandatory filter (And / Or).**
   - Click **And** to search for the criteria specified.
   - Click **Or** to search for either field specified when searching multiple criteria.

4. Then click Search.

Note: For every search criteria selected, the mandatory search filter is required.

Inventory

Field	Description
Zone	Select a zone from the list box.
Year	Allows you to search for inventory for one year or for a range of years.
	To search on only one year enter the year in both the 'from' and 'to' text boxes.
	To search on a range of years; enter the first year in the 'from' text box, and enter the last year in the 'to' text box.
Category	Select a category from the list box.
Quantity	Allows you to search for inventory by a specific quantity or a quantity range.
	To search on a specific quantity enter the quantity in both the 'from' and 'to' text boxes.
	To search on a quantity range, enter the first figure in the 'from' text box, and enter the last figure in the 'to' text box.
Calculation	Select calculation A or B from the list box.
Report On	Select the report on checkbox to search on occurrences that have been reported on.
NI 43-101	Select the NI 43-101 checkbox to search on NI 43-101 occurrences.
	NOTE: See http://www.apgo.net/cpd/NI43101/ for further information on disclosing scientific and technical information about mineral projects.
Sample Type	Select a sample type from the list box.

Commodities/Grades

Field	Description
Commodity	Select a commodity from the list box.
	A list of these codes can be found in Appendix B of this manual. Commodity grades for precious metals are expressed in grams per metric tonne, while grades for other commodities are expressed in percentages.
Grades	Enter the grade in the text box.
References	Enter references in the text box.
Inventory Comments	Enter inventory comments in the text box.
	Keywords can be:
	- words - partial words - numbers - dates - abbreviations - any combination of the above
	Keywords not in a string have to be entered as separate filters, a comma will not work in this field.
	NOTE: When searching comments by keyword or partial keywords your search results will include every record that has the word or partial word anywhere in a sentence.

I. Production Tab Search

Searching - Basic Production Tab

Search by production data associated with an occurrence. The default is always 1900 to the present year which is the complete range of possible years.

Production

Field	Description
Commodity	Select one or more commodities from the list box. Use Ctrl-Click to make multiple selections.
	A list of these codes can be found in Appendix B of this manual. Commodity grades for precious metals are expressed in grams per metric tonne, while grades for other commodities are expressed in percentages.

Year of Production	Select a year or a range of years to search on.
	To search on only one year select the year in both the 'from' and 'to' list boxes.
	To search on a range of years; select the first year in the from list box, and select the last year in the to list box.
Tonnes Mined / Milled Annually	Enter a specific number to search on, or search on a range of tonnes mined or milled annually.
	To search on only one amount enter the figure in both the 'from' and 'to' text boxes.
	To search on a range; enter the figures in the 'from' and 'to' text boxes.

Searching - Advanced Production Tab

Search by production data associated with an occurrence. The default is always 1900 to the present year which
is the complete range of possible years.

Advanced Search Quick Tips

1. **Always select or enter the search criteria first, before selecting a filter.**

2. **Select an optional filter (Primary / Not).**
      - Select the **Primary** check box if only searching on primary.
      - Select the **Not** check box to exclude the criteria from the search.

3. **Select a mandatory filter (And / Or).**
      - Click **And** to search for the criteria specified.
      - Click **Or** to search for either field specified when searching multiple criteria.

4. Then click Search.

Note: For every search criteria selected, the mandatory search filter is required.

Production

Field	Description
Production Year	Allows you to search for production for one year or for a range of years.
	To search on only one year enter the year in both the 'from' and 'to' text boxes.
	To search on a range of years enter the first year in the 'from' text box, and enter the last year in the 'to' text box.

Tonnes Mined	Allows you to search for tonnes mined by a specific quantity or a quantity range.
	To search on a specific quantity enter the quantity in both the 'from' and 'to' text boxes.
	To search on a quantity range, enter the first figure in the 'from' text box, and enter the last figure in the 'to' text box.
Tonnes Milled	Allows you to search for tonnes milled by a specific quantity or a quantity range.
	To search on a specific quantity enter the quantity in both the 'from' and 'to' text boxes.
	To search on a quantity range, enter the first figure in the 'from' text box, and enter the last figure in the 'to' text box.
Commodity	Select the commodity from the list box.
	NOTE: A list of these codes can be found in Appendix B of this manual.
Recovered	Enter quantity recovered in the text box.
Production Comments	Search on production comments by entering search keywords or partial keywords in the text box.

Keywords can be:

- words
- partial words
- numbers
- dates
- abbreviations
- any combination of the above

Keywords not in a string have to be entered as separate filters, a comma will not work in this field.

NOTE: When searching comments by keyword or partial keywords your search results will include every record that has the word or partial word anywhere in a sentence.

J. Capsule Geology and Bibliography Tab Search

Searching - Basic Capsule Geology and Bibliography

The Bibliography and Capsule Geology tab allows you to enter keywords to search on any occurrence comment in the MINFILE database.

 You can search for comments in:

- Capsule Geology
- Bibliography
- Identification
- Structural
- Significant Mineral
- Associated Mineral
- Alteration Mineral
- Host Rock
- Geological Setting
- Inventory/Reference
- Production

Type one or more search keywords into the appropriate text boxes. Keywords not in a string have to be entered as separate filters, a comma will not work in this field.

Keywords can be words, partial words, numbers, dates, abbreviations or any combination.

For example:

Searching on quartz in the geological comments will return every record that has quartz anywhere in a sentence, in the geological comments.

The broader or more general the comment keywords; the more results will be returned.

Capsule Geology

Field	Description

| Capsule Geology | Search on Capsule Geology comments by entering search keywords or partial keywords in the text box. |
| | |

Keywords can be:

- words
- partial words
- numbers
- dates
- abbreviations
- any combination of the above

Keywords not in a string have to be entered as separate filters, a comma will not work in this field.

For example:

Searching on quartz in the geological comments will return every record that has the word quartz anywhere in a sentence.

Note: When searching comments by keyword or partial keywords your search results will include every record that has the word or partial word anywhere in a sentence.

The broader or more general the comment keywords; the more results will be returned.

Bibliography

Field	Description
Bibliography	Search on Bibliography comments by entering search keywords or partial keywords in the text box.

Keywords can be

- words
- partial words
- numbers
- dates
- abbreviations
- any combination of the above

Keywords not in a string have to be entered as separate filters, a comma will not work in this field.

Note: When searching comments by keyword or partial keywords

your search results will include every record that has the word or partial word anywhere in a sentence.

The broader or more general the comment keywords; the more results will be returned.

Comments

Field	Description
Comments for - Identification, Structural, Significant, Associated, Alteration, Host Rock, Geological Setting, Inventory/Reference, or Production	Search on any comment field by entering search keywords or partial keywords in the text box. Keywords can be - words - partial words - numbers - dates - abbreviations - any combination of the above For all text boxes, enter Keywords to search. Keywords not in a string have to be entered as separate filters, a comma will not work in this field. Do not use quotes on text searches unless you are searching for them as part of the text itself.

Searching - Advanced Capsule Geology and Bibliography

The Bibliography and Capsule Geology tab allows you to enter keywords to search on any occurrence database comment. From this tab, you can search for comments in Capsule Geology and Bibliography.

Advanced Search Quick Tips

1. **Always select or enter the search criteria first, before selecting a filter.**

2. **Select an optional filter (Primary / Not).**
    - Select the **Primary** check box if only searching on primary.
    - Select the **Not** check box to exclude the criteria from the search.

3. **Select a mandatory filter (And / Or).**
    - Click **And** to search for the criteria specified.
    - Click **Or** to search for either field specified when searching multiple criteria.

4. Then click Search.

Note: For every search criteria selected, the mandatory search filter is required.

Capsule Geology

Field	Description
Capsule Geology	Search on Capsule Geology comments by entering search keywords or partial keywords in the text box. Keywords can be: - words - partial words - numbers - dates - abbreviations - any combination of the above Keywords not in a string have to be entered as separate filters, a comma will not work in this field. For example: Searching on quartz in the geological comments will return every record that has the word quartz anywhere in a sentence. Note: When searching comments by keyword or partial keywords your search results will include every record that has the word or partial word anywhere in a sentence. The broader or more general the comment keywords; the more results will be returned.

Bibliography

Field	Description

Bibliography   Search on Bibliography comments by entering search keywords or partial keywords in the text box.

Keywords can be

- words
- partial words
- numbers
- dates
- abbreviations
- any combination of the above

Keywords not in a string have to be entered as separate filters, a comma will not work in this field.

Note: When searching comments by keyword or partial keywords your search results will include every record that has the word or partial word anywhere in a sentence.

The broader or more general the comment keywords; the more results will be returned.

K. Import Numbers Tab Search

Searching - Basic & Advanced Import Numbers Tab

A list of MINFILE numbers can be imported into your search for downloading or reporting on a specific set of MINFILE occurrences. Note: The file must be a text file (.txt extension).

You can also key your own typed list into the "Import the Following MINFILE Numbers" box. Note: The numbers must be entered vertically in a columnar fashion, no commas.
Eg. 104B 001
      104B 005
      104B 021

To import a file from your computer or network:

1. Click **Browse** to search for the file on your computer or network location.
2. A Choose file windows search box opens.
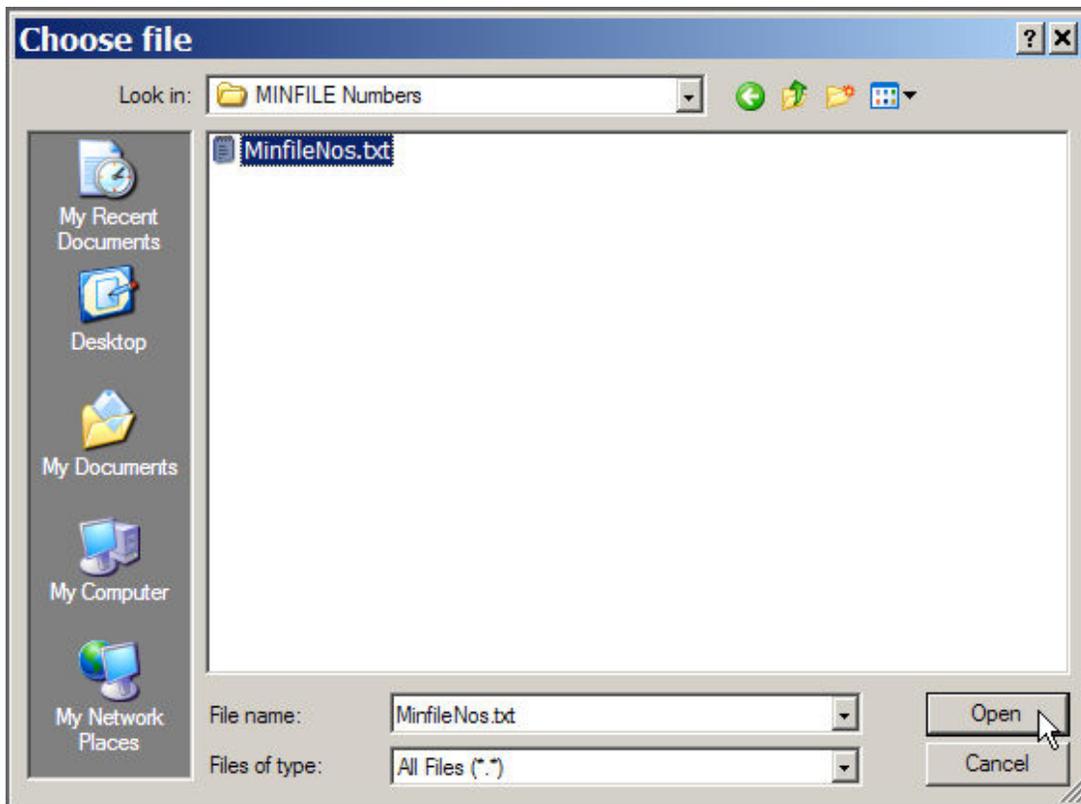
3. Search your folders for the text file to import.
4. Click the file to select it.
5. Click **Open**.
6. The windows search box closes and the file name appears in the import field field.
7. To import the file click **Import File**.
8. The imported numbers file is displayed in the "Import the Following MINFILE Numbers" text box.

9. If necessary make any changes or edits to the numbers list.
10. Click *Search*.

The search will return only the MINFILE records entered.

L. Sample MINFILE Name Basic Search

To search for one MINFILE Name:

Enter the exact Name in the MINFILE Name text box.

Click *Search*.

In this example 'Bonanza' was entered.

NOTE: MINFILE names may be entered in upper or lower case (or any combination).

The search returns all records that have the MINFILE name of Bonanza.

To search for a partial MINFILE Name:

Enter a partial MINFILE name in the MINFILE Name text box.

Click *Search*.

In this example 'bon' was entered.

NOTE: MINFILE names may be entered in upper or lower case (or any combination).

IDENTIFICATION/Location | Mineral Occurrence | Host Rock | Geological Setting | Inventory | Production | Capsule Geology/ Bibliography | Import Numbers

IDENTIFICATION   Identification Help (?)

MINFILE Name   bon   Enter a name or partial name

MINFILE Number [   ] **To** [   ]   Enter a number or partial number

Status ☐ Anomaly   ☐ Past Producer   ☐ Prospect   ☐ Unknown
            ☐ Developed Prospect ☐ Producer   ☐ Showing

The search returns all records that have MINFILE names beginning with 'bon'.

MINFILE Home page   ARIS Home page

MINFILE Search Results
Total Records: 12220

Print Preview   [PDF ▼] [-- SELECT REPORT -- ▼] ☑ New Window
Download   [SELECT DOWNLOAD ▼]
Refine Search   New Search

Criteria Type	Criteria Name
MINFILE Name	like bon
97 records hit	

Click a field header to sort by the field

MINFILE Number	Names	Status	Commodities	NTS Maps	Latitude Longitude (NAD 83)	Deposit Types
092F 379	BONELL CREEK	Showing Inventory Report	Copper, Silver	092F01E, 092F08E	49 ° 14' 48" N 124° 12' 16" W	Cu+/-Ag quartz veins
092HNE012	BONANZA GRASSHOPPER	Showing	Copper	092H10W	49 ° 32' 32" N 120° 53' 01" W	Alaskan-type Pt+/-Os+/-Rh+/-Ir Subvolcanic Cu-Ag-Au (As-Sb)
092HNE069	BONANZA QUEEN (L.72) NEVADA (L.79) GRASSHOPPER FAMOUS	Prospect Inventory Report	Copper, Gold, Silver, Lead	092H10W	49 ° 32' 32" N 120° 52' 18" W	Polymetallic veins Ag-Pb-Zn+/-Au
092HNE232	BONACCI SLEEPER LUCKY 2	Showing	Copper, Lead	092H09W	49 ° 33' 05" N 120° 26' 09" W	Alkalic porphyry Cu-Au Volcanic redbed Cu
092HNW022	MAG BONANZA LODE NORANDA TRENCHES	Showing	Zinc, Copper, Lead, Molybdenum	092H11E	49 ° 40' 30" N 121° 01' 14" W	Porphyry Cu +/- Mo +/- Au Polymetallic veins Ag-Pb-

M. Sample MINFILE Advanced Searches

By MINFILE Name, MINFILE Number or Commodity

To search for an exact MINFILE Name:

1. Select the Identification/Location Tab.
2. Enter the exact name in the MINFILE Name text box. In this example 'blue jay' was entered.
3. Click **And** (Mandatory search filter).
4. The MINFILE name entered is displayed to the right of the name text box.
5. Click **Search**.

NOTE: MINFILE names may be entered in upper or lower case (or any combination).

The search returns all records that have the MINFILE name 'Blue Jay'.

MINFILE Search Results

Print Preview | PDF ▾ | -- SELECT REPORT -- ▾ | ☑ New Window

Total Records: 12219

Download | SELECT DOWNLOAD ▾

Return to search

Unfiltered: 12219 Records

Filter #1: 18 Records (Filtered by MINFILE Name/And Like blue jay/)

Click a field header to sort by the field

MINFILE Number	Names	Status	Commodities	NTS Maps	Latitude Longitude (NAD 83)	Deposit Types
082ENE054	BLUE JAY PLATINUM BLONDE FRANKLIN CAMP	Showing Inventory Report	Copper, Silver	082E09W	49 ° 34' 55" N 118° 23' 07" W	Unknown
082ESE011	SKYLARK (L.763) SKYLARK MINE O.B. SKYLARK OB H SERP DENVER (L.764) BILLY FR. (L.999) MEADOW LARK (L.1712) SILVER CLOUD (L.1218) BLUE JAY (L.1287) SKYLARK CAMP	Past Producer Production Report Inventory Report	Silver, Gold, Lead, Zinc, Copper, Antimony	082E02E	49 ° 05' 29" N 118° 38' 23" W	Polymetallic veins Ag-Pb-Zn+/- Au
082ESE217	BLUEJAY RUSTY BLUE JAY	Showing	Gold, Silver, Copper	082E07W	49 ° 24' 27" N 118° 55' 12" W	Au-quartz veins

To search for a partial MINFILE Name:

1. Select the Identification/Location Tab.
2. Enter a partial name in the MINFILE Name text box. In this example 'blue' was entered.
3. Click **And** (Mandatory search filter).
4. The MINFILE name entered is displayed to the right of the name text box.
5. Click **Search**.

NOTE: MINFILE names may be entered in upper or lower case (or any combination).

The search returns all records that have the MINFILE name Blue or MINFILE names beginning with Blue.

In this example 180 records are returned. The name Blue, or a name starting with Blue occurs at least once in each MINFILE record returned. Example: Blue, Blue Jay, Blue Hawk, Blueberry.

To search for a primary MINFILE Name:

1. Select the Identification/Location Tab.
2. Enter the exact name in the MINFILE Name text box. In this example 'blue jay' was entered.
3. Select the *Primary* checkbox (Optional search filter).
4. Click *And* (Mandatory search filter).
4. The MINFILE name and primary filter selected are displayed to the right of the name text box.
5. Click *Search*.

The search returns only the records that have 'Blue Jay' as the primary MINFILE name. In this example only 7 records have the primary MINFILE name of Blue Jay.

MINFILE Search Results

Print Preview | PDF | -- SELECT REPORT -- | ☑ New Window

Total Records: 12219

Download | SELECT DOWNLOAD

Return to search

Unfiltered: 12219 Records

Filter #1: 7 Records (Filtered by MINFILE Name/And Primary Like blue jay/)

Click a field header to sort by the field

MINFILE Number	Names	Status	Commodities	NTS Maps	Latitude Longitude (NAD 83)	Deposit Types
082ENE054	BLUE JAY PLATINUM BLONDE FRANKLIN CAMP	Showing Inventory Report	Copper, Silver	082E09W	49 ° 34' 55" N 118° 23' 07" W	Unknown
082KNW079	BLUE JAY (L.13482) SNOWSTORM (L.13481) MOUNTAIN VIEW (L.13477) GLADSTONE (L.13480) COPPER GLANCE (L.13483) JOKER (L.13478) JUTLAND (L.13484) VICTORIA (L.13479)	Past Producer Production Report Inventory Report	Silver, Lead, Zinc, Gold	082K14W	50 ° 47' 50" N 117° 25' 16" W	Mississippi Valley-type Pb-Zn
082LSW022	BLUE JAY (L. 738)	Showing Inventory Report	Gold, Lead, Copper	082L06W	50 ° 17' 07" N 119° 17' 23" W	Polymetallic veins Ag-Pb-Zn+/- Au
092F 222	BLUE JAY LITCHIE	Showing	Copper	092F11E	49 ° 43' 17" N 125° 12' 31" W	
092HNE105	BLUE JAY SNOWFLAKE GROVE	Prospect Inventory Report	Copper, Gold, Silver	092H15E	49 ° 58' 51" N 120° 35' 55" W	Alkalic porphyry Cu-Au

To search for one MINFILE Number:

1. Select the Identification/Location Tab.
2. Type the number in the first MINFILE Number text box. NOTE: If the MINFILE number includes spaces - the exact number of spaces
      must be entered. In this example we entered '093L 096'.
3. Click in the 'To' text box. The 'To' text box is automatically filled with the number entered in the first text box.
4. Click **And** (Mandatory search filter).
5. The MINFILE number entered is displayed to the right of the commodity list box.
6. Click **Search**.

MINFILE Advanced Search

⑦ Hints and Tips for Advanced Search

⑦ Sample Searches

Search

Total Records: 12222

Clear Current Filter

Clear All Filter

Unfiltered: 12222 Records
Filter #1: (Filtered by MINFILE No.(s)/And 093L 096 to 093L 096/)

Switch to basic search

| Identification/ Location | Mineral Occurrence | Host Rock | Geological Setting | Inventory | Production | Capsule Geology/ Bibliography | Import Numbers | |

IDENTIFICATION

Identification Help ⑦

				Not	
MINFILE Name	Like	[ ]	☐ Primary	And Or ☐	/no filter specified/
MINFILE No.	From 093L 096 To 093L 096			And Or ☐	And 093L 096 to 093L 096
NMIN	Like	[ ]		And Or ☐	/no filter specified/

The search will return only the record specified.

MINFILE Search Results

Total Records: 12222

Unfiltered: 12222 Records

Filter #1: 1 Records (Filtered by MINFILE No.(s)/And 093L 096 to 093L 096/)

Click a field header to sort by the field

MINFILE Number	Names	Status	Commodities	NTS Maps
093L 096	BONANZA TRADE DOLLAR SILVER LAKE	Showing	Copper, Silver	093L14W

To search for a range of MINFILE numbers:

To search on a range of MINFILE numbers you can enter complete MINFILE numbers in the 'to' and 'from' text boxes or enter partial numbers.

For example entering '082' to '083' will return all records between 082 and 083.

1. Select the Identification/Location Tab.
2. Type the MINFILE number in the first MINFILE Number text box.
3. When you click in the 'To' text box the text box is automatically filled with the number entered in the first text box.
4. Click **And** (Mandatory search filter).
5. The MINFILE number entered is displayed to the right of the commodity list box.

6. Click **Search**.

The search will return all records beginning with a number greater than 082 but less than 083.

In this example the search returned all records beginning with **082ENE001** and ending with **082O 003**.

MINFILE Search Results

Total Records: 12222

Unfiltered: 12222 Records

Filter #1: 3355 Records (Filtered by MINFILE No.(s)/And 082 to 083/)

Click a field header to sort by the field

MINFILE Number	Names	Status	Commodities
082ENE001	MCKINLEY MCKINLEY (L.140S) FRANKLIN CAMP	Past Producer Production Report	Copper, Silver, Lead, Zinc, Gold
082ENE002	BANNER BANNER (L.1199) PLATINUM BLONDE FRANKLIN CAMP	Showing Inventory Report	Gold, Silver, Lead, Zinc, Copper
082ENE003	UNION UNION (L.1022S) PAPER DOLLAR (L.1677S) UNION FRACTION (L.1678S) IDAHO (L.1679S) FRANKLIN CAMP	Past Producer Production Report Inventory Report	Silver, Gold, Zinc, Lead, Copper, Platinum, Palladium

To search for one commodity:

1. Select the Mineral Occurrence Tab.
2. Select a commodity from the list box. In this example 'Lead' was selected.
3. Click **And** (Mandatory search filter).
4. The selected commodity is displayed to the right of the commodity list box.
5. Click **Search**.
6. The MINFILE Search Results screen displays the records found.

MINFILE Search Results

Total Records: 12223

Print Preview   PDF ▾   -- SELECT REPORT --
Download   SELECT DOWNLOAD ▾
Return to search

Unfiltered: 12223 Records
Filter #1: 3991 Records (Filtered by Commodity/And Lead/)

Click a field header to sort by the field

MINFILE Number	Names	Status	Commodities	NTS Maps	Latitude Longitude (NAD 83)	Deposit Types
082ENE001	MCKINLEY MCKINLEY (L.140S) FRANKLIN CAMP	Past Producer Production Report	Copper, Silver, Lead, Zinc, Gold	082E09W	49 ° 32' 27" N 118° 23' 15" W	Cu skarn Pb-Zn skarn
082ENE002	BANNER BANNER (L.1199) PLATINUM BLONDE FRANKLIN CAMP	Showing Inventory Report	Gold, Silver, Lead, Zinc, Copper	082E09W	49 ° 33' 34" N 118° 22' 50" W	Polymetallic veins Ag-Pb-Au-quartz veins
082ENE003	UNION UNION (L.1022S) PAPER DOLLAR (L.1677S)	Past Producer Production Report Inventory Report	Silver, Gold, Zinc,	082E09W	49 ° 33' 31" N 118° 21' 18" W	Polymetallic veins Ag-Pb-Tailings

N. To Continue Searching on Previous Search Results

From the MINFILE Search Results screen:

1. Click **Return to Search**.
2. You are returned to the previous Search tab. In this example you return to the Mineral Occurrence tab.
3. Select another commodity from the list box. In the example 'Zinc' was selected.
4. Click **And** (Mandatory search filter).
5. Both commodities selected are displayed to the right of the commodity list box.
6. Click **Search**.

MINFILE Advanced Search   ? Hints and Tips for Advanced Search   [Search]

Total Records: 12223   ? Sample Searches

Unfiltered: 12223 Records
Filter #1: 3991 Records (Filtered by Commodity/And Lead/)
Filter #2: (Filtered by Commodity/And Zinc/)

[Clear Current Filter]
[Clear All Filter]
Switch to basic search

Identification/ Location	Mineral Occurrence	Host Rock	Geological Setting	Inventory	Production	Capsule Geology/ Bibliography	Import Numbers

MINERAL OCCURRENCE   MINFILE Occurrence Help ?

Commodity   [Zinc ▾] ☐ Primary   **Not**   [And] [Or] ☐ And Lead And Zinc

The MINFILE Search Results screen shows

- The first search filter with number of records found.

- The second search filter with number of records found.

MINFILE Search Results

Total Records: 12223

[Print Preview] [PDF ▾] [-- SELECT REPORT -- ▾]
[Download] [SELECT DOWNLOAD ▾]
[Return to search]

Unfiltered: 12223 Records
Filter #1: 3991 Records (Filtered by Commodity/And Lead/)
Filter #2: 3173 Records (Filtered by Commodity/And Zinc/)

Click a field header to sort by the field

MINFILE Number	Names	Status	Commodities	NTS Maps	Latitude Longitude (NAD 83)	Deposit Types
082ENE001	MCKINLEY MCKINLEY (L.140S) FRANKLIN CAMP	Past Producer Production Report	Copper, Silver, Lead, Zinc, Gold	082E09W	49 ° 32' 27" N 118° 23' 15" W	Cu skarn Pb-Zn skarn
082ENE002	BANNER BANNER (L.1199) PLATINUM BLONDE FRANKLIN CAMP	Showing Inventory Report	Gold, Silver, Lead, Zinc, Copper	082E09W	49 ° 33' 34" N 118° 22' 50" W	Polymetallic veins Ag-Pb-Zn- Au-quartz veins
082ENE003	UNION UNION (L.1022S) PAPER DOLLAR (L.1677S) UNION FRACTION (L.1678S) IDAHO (L.1679S) FRANKLIN CAMP	Past Producer Production Report Inventory Report	Silver, Gold, Zinc, Lead, Copper, Platinum, Palladium	082E09W	49 ° 33' 31" N 118° 21' 18" W	Polymetallic veins Ag-Pb-Zn- Tailings

NOTE: The MINFILE database is frequently updated, so your search results may not always be identical to the results found in the sample searches.

MINFILE User's Manual - Chapter IV
Reports for MINFILE/www and MINFILE/pc

A. **Types of MINFILE Reports Available**

B. **Summary Reports**
- **- MINFILE Record Summary**
- **- Summary Production Report**
- **- Summary Inventory Report**

C. **Detailed Reports**
- **- MINFILE Detail Report**
- **- Production Detail Report**
- **- Inventory Detail Report**

D. **Printing Reports**

E. **MINFILE Search Results**

F. **MINFILE Downloads**

A. Types of MINFILE Reports Available

You can report on the data you have isolated using the search facility or on the complete database. The following sections provide a brief description of the different reports available and a few hints on how to best make use of this facility. A sample of each MINFILE/www report is included in Appendix K of this manual.

B. Summary Reports

Summary Production Report
The Summary Production Report lists production totals for each occurrence in your search criteria.
Note: If there is no production data for an occurrence - the MINFILE occurrence will not be included in the report.

Summary Inventory Report
The Summary Inventory Report lists the inventory tonnage and commodity grade, with references and comments for each occurrence in your search criteria.
Note: If there is no inventory data for an occurrence - the MINFILE occurrence will not be included in the report.

C. Detail Reports

MINFILE Detail Report
The MINFILE Detail Report contains detail information on one MINFILE occurrence.

MINFILE Production Detail Report

The Production Detail Report contains the production data associated with an occurrence.

MINFILE Inventory Detail Report

The Inventory Detail Report contains the inventory data associated with an occurrence.

D. Printing Reports

At the top of the page are two sets of controls. The first lists all reports that are available for this set of search results. The second lists all the available downloads.

There are 2 different report categories:

Summary Reports

From the Search results page you can select to view or print a Summary Production or Summary Inventory report on all the reported production or inventory data on all your search results.

To print or view Summary Reports from MINFILE/www

1. Select the report type from the list box.
2. Select PDF or Word from the list box.
3. Click **Print Preview**.

The report opens in a new window. The report may be now be saved or printed. To exit the report without any saving just click the **X** close button.

To print or view Summary Reports from MINFILE/pc

1. Select the report type from the Choose Report to Print box.
2. Click **Print**, a Preview of the report will open in a new window. The report may be now be saved or printed. To exit the report without any saving just click the **X** close button.

NOTE: If there is no production or inventory data for an occurrence - the MINFILE occurrence will not be included in the report.

Detail Reports

Allows you to print or view detailed information on one MINFILE occurrence.

From the individual MINFILE Record Summary page you can view or print a MINFILE Detail report, a Production Detail report or an Inventory Detail report.

To print or view Detail Reports from MINFILE/www

1. Select the report type from the list box.
2. Select PDF or Word from the list box.
3. Click **Print Preview**.

The report opens in a new window. The report may be now be saved or printed. To exit the report without saving just click the **X** close button.

To print or view Detail Reports from MINFILE/pc

1. From the Search Results page - double-click on the MINFILE Number to select the record. A MINFILE Record Summary report opens in a new window.
2. Select the report to print from the "Choose Report to Print" window. Then click *Print*.
3. A preview of the report will open up in a new window. The report may be now be saved or printed.
4. To exit the report without saving just click the **X** close button.

E. MINFILE Search Results

This page returns the results requested in the search. The criteria used in the search appears in a table at the top of the page.

If more than one record is found that matches the search criteria, all the records are returned.

The following fields are returned with every search:

- MINFILE Number
- Names
- Status
- Commodities
- NTS Maps
- Latitude/Longitude
- Deposit Types

Filter #2: 6 Records (Filtered by Commodity/And Gold/)

Click a field header to sort by the field

MINFILE Number	Names	Status	Commodities	NTS Maps	Latitude Longitude (NAD 83)	Deposit Types
082ESE062	EMMA (L.591) MOUNTAIN ROSE (L.794) EMMA BLUEBELL BRAYFOGLE (L.1491) JUMBO (L.592) MINNIE MOORE (L.593) BREY FOGLE SUMMIT CAMP BLUEBELL	Past Producer Production Report	Copper, Gold, Silver, Zinc, Germanium, Molybdenum, Cobalt	082E02E	49 ° 07' 48" N 118° 32' 58" W	Cu skarn Fe skarn
082ESW046	MINNIE HA-HA (L.680) MINNIE-HA-HA SAILOR (L.766) GOLDEN CROWN FR. (L.924) CARIBOO FR. CARAMELIA CAMP MCKINNEY	Prospect Inventory Report	Gold, Silver, Lead, Zinc, Copper	082E03E	49 ° 06' 45" N 119° 11' 27" W	Au-quartz veins
082FNW048	CARNATION (L.575) MAIN MINNIEHAHA VIOLET (L.3168) FOOTWALL MINNIE HA HA VIOLET FR. (L.3170)	Past Producer Production Report	Silver, Lead, Zinc, Gold	082F14W	49 ° 57' 59" N 117° 16' 12" W	Polymetallic veins Ag-Pb-Zn+/-Au
082FSW188	HARRIET MINNIE M TULIP DEW DROP MONITOR LOT 15494	Past Producer Production Report	Gold, Silver	082F06W	49 ° 18' 48" N 117° 21' 24" W	Au-quartz veins
082GNW045	EMILY-TIGER EHLINGER MINNIE M	Past Producer Production Report	Lead, Silver, Copper, Gold	082G13E	49 ° 48' 10" N 115° 36' 59" W	Polymetallic veins Ag-Pb-Zn+/-Au
082KNE009	RUTH-VERMONT RUTH VERMONT RUTH (L.418) CHARLOTTE (L.405) MINNIE (L.419) VERMONT (L.8123) PINE TREE NELSON BLACKSMITH SOUTH NORTH SHEBA (L.8124) CLEOPATRA (L.8122) RUTH FRACTION (L.8125)	Past Producer Production Report Inventory Report	Silver, Lead, Zinc, Copper, Gold, Cadmium, Tungsten	082K15W	50 ° 56' 51" N 116° 58' 45" W	Polymetallic veins Ag-Pb-Zn+/-Au Sedimentary exhalative Zn-Pb-Ag

MINFILE Record Summary

The MINFILE Record Summary lists the most common mineral occurrence information. From here have the option to
view or print as follows:

1. View a summary of the record by clicking on the *MINFILE number*;

2. View a complete report of the record by clicking on the first *MINFILE name*;

3. In the Status column, click on *Inventory Report* or *Production Report* to get a full report on inventory or production. If there is no report indicated in this column for inventory or production then that means that there is no inventory or production data for that specific record.

4. View the record on a map in the MapPlace by clicking on the *Latitude/Longitude* coordinates.

4. Click *Refine your search* to search again on your previous search results. You are returned to your previous search tab with all your search criteria saved. Select additional search criteria(s) and click Search again.

OR

5. Click *New Search* to start a new search. You are returned to your previous search tab with all search criteria deleted.
You are ready to start a new search.

MINFILE Record Summary

	Print Preview	PDF ▼	-- SELECT REPORT -- ▼	☑ New Window

MINFILE No   082ESW046

<div align="center">

Inventory Report

</div>

Revise MINFILE Occurrence

File Created:	24-Jul-85	by GSB
Last Edit:	17-Jul-96	by KJM

SUMMARY   Summary Help ⑦

Name	MINNIE HA-HA (L.680), MINNIE-HA-HA, SAILOR (L.766), GOLDEN CROWN FR. (L.924), CARIBOO FR., CARAMELIA, CAMP MCKINNEY	**Mining Division**	Greenwood
		BCGS Map	
Status	Prospect	**NTS Map**	082E03E
Latitude	49° 06' 45" N	**UTM**	11 (NAD 83)
Longitude	119° 11' 27" W	**Northing**	5442273
		Easting	340124
Commodities	Gold, Silver, Lead, Zinc, Copper	**Deposit Types**	I01 : Au-quartz veins
Tectonic Belt	Intermontane	**Terrane**	Okanagan

Capsule Geology

The Minnie-Ha-Ha occurrence is located at 1318 metres elevation on the southeastern slopes of Baldy Mountain, 600 metres southwest of the Cariboo-Amelia occurrence (082ESW020). The occurrence is part of the historic Camp McKinney, located 9 kilometres north-northwest of Bridesville, British Columbia.

In 1901, the Sailor and Minnie-Ha-Ha claims were amalgamated under the ownership of Minnie-Ha-Ha Gold Mining Co. Little exploration has been done on the Minnie-Ha-Ha since this time. Jan Resources Ltd. conducted an exploration program on the Teaser (Lot 1625), Minnie-Ha-Ha, Pandre (Lot 1740), Alma (Lot 1741), Sneezer (Lot 2772) and Mitch (Lot 3589) Crown and Reverted Crown grants. The program consisted of soil geochemistry and prospecting. In 1980, the Minnie-Ha-Ha claim was acquired by Nexus Resource Corporation as part of the Sailor Group. An electromagnetic and magnetometer geophysical survey were conducted in that year. In 1981, geochemical soil and geological mapping were conducted. Then in 1988, another more detailed soil and rock geochemical program was conducted.

The Minnie-Ha-Ha occurrence was developed by a 61-metre shaft with drifting at 30, 36, and 61 metre levels totalling 183 metres. On the east side of the shaft the vein is reportedly 15 to 30 centimetres wide. The west side of the shaft contains a narrow shear zone with a few quartz stringers within the footwall. The shaft is now caved and inaccessible. Other veins were discovered on the Minnie-Ha-Ha claim but only prospected.

The Minnie Ha-Ha occurrence lies in greenstone metavolcanic and metasedimentary rocks of the Carboniferous to Permian Anarchist Group. To the north are 'Valhalla' Jurassic-Cretaceous granitic and granodioritic rocks. Middle Jurassic granitic rocks occur to the southwest. Eocene Penticton Group volcanic and sedimentary rocks overlie locally sheared amphibolite and serpentinite bodies of the Anarchist Group to the east. For a more detailed description of the regional geology of the McKinney camp refer to the Cariboo-Amelia occurrence (082ESW020).

regional geology of the McKinney camp refer to the Cariboo-Amelia occurrence (082ESW020).

The Minnie-Ha-Ha occurrence is hosted by calcareous greenstone crosscut by quartz feldspar veinlets. Hostrocks are strongly bleached near the vein walls and altered to sericite, calcite and ankerite with minor secondary quartz and disseminated pyrite. Silicification of the hostrocks is also common.

Mineralization consists of minor pyrite and galena within a 15 centimetre to 1.37 metre wide quartz vein striking 280 degrees and dipping 80 degrees north. Trace chalcopyrite, sphalerite and free gold were found in dump samples in 1988. The vein is reported traceable for 15 metres on surface. Several samples taken from the Minnie-Ha-Ha dump in 1988 yielded anomalous results. The best sample, Sample CM8803, yielded 11.9 grams per tonne gold, 30.0 grams per tonne silver, 0.63 per cent lead, 0.16 per cent zinc and 0.04 per cent copper (Assessment Report 178155). Sample CM8806, a 30-centimetre chip sample taken from the Minnie-Ha-Ha shaft, yielded 4.7 grams per tonne gold, 3.3 grams per tonne silver, 0.07 per cent zinc, 0.03 per cent lead and 0.01 per cent copper (Assessment Report 178155). The vein width was 30-centimetres with a strike of 116 degrees and a dip of 81 degrees northwest. The footwall consisted of white bull quartz. The hangingwall contained chloritic partings with 5 per cent disseminated pyrite, 0.5 per cent sphalerite, trace galena and chalcopyrite.

A five stamp mill was erected and ran for three weeks during March 1900. No production records could be found. The property was abandoned later that same year. It is questionable whether pay ore was ever found (Minister of Mines Annual Report 1901, page 1151).

Bibliography

EMPR AR 1894-map after 758; *1897-606; 1899-773; 1901-1151
EMPR ASS RPT *9840, *17815, 20668, 23833
EMPR MR MAP 7 (1934)
EMPR OF 1989-5
EMPR PF (Letter and maps of work by D.W. Tully, 1979)
GSC BULL *6, pp. 1-15,18-19
GSC MAP 538A; 539A; 37-21; 15-1961; 1736A
GSC MEM 179, p. 17
GSC OF 481; 637; 1505A; 1565; 1969
Basque, G. (1992): Ghost Towns and Mining Camps of the Boundary Camp, pp. 12-22
Placer Dome File

MINFILE Detail Report (screenprints of pages 1 and 2)

The MINFILE Detail report is the most comprehensive report generated on the MINFILE database. It contains all the information on each mineral occurrence in the database. This report often uses two or more pages for each occurrence, so it is strongly recommended that you use the search option to narrow the database before you begin generating detail reports.

http://minfile.gov.bc.ca/secure/report.aspx?No=104B%20%20001 - Microsoft Internet Explorer

File   Edit   Go To   Favorites   Help

Back   Search   Favorites

Address   http://minfile.gov.bc.ca/secure/report.aspx?No=104B%20%20001   Go   Links

1 / 2   65.2%   Find

MINFILE Detail Report
BC Geological Survey
Ministry of Energy, Mines & Petroleum Resources

BRITISH
COLUMBIA

Location/Identification

MINFILE Number:	104B 001	National Mineral Inventory Number:	104B12 Cu1
Name(s):	JOHNSON		
	JOHNSON RIVER		
Status:	Showing	Mining Division:	Liard
		Electoral District:	Bulkley Valley-Stikine
Regions:	British Columbia	Forest District:	Skeena Stikine Forest District
BCGS Map:	104B073		
NTS Map:	104B12E	UTM Zone:	09 (NAD 83)
Latitude:	56 44 10 N	Northing:	6290995
Longitude:	131 35 06 W	Easting:	341878
Elevation:	122 metres		
Location Accuracy:	Within 1KM		
Comments:	Located on the north side of the Iskut River, 4.8 kilometres east of the Johnson River mouth.		

Mineral Occurrence

Commodities:	Silver, Lead, Copper, Zinc	
Minerals:	Significant:	Tetrahedrite, Galena, Chalcopyrite, Sphalerite
	Associated:	Quartz, Pyrite
	Mineralization Age:	Unknown
Deposit	Character:	Vein
	Classification:	Epigenetic, Hydrothermal
	Type:	I05: Polymetallic veins Ag-Pb-Zn+/-Au
	Strike/Dip:	220/60W

Host Rock

Dominant Host Rock: Volcanic

Stratigraphic Age	Group	Formation	Igneous/Metamorphic/Other
Upper Triassic	Stuhini	Undefined Formation	------
Pennsylvan.-Permian	------	------	Stikine Assemblage

Isotopic Age	Dating Method	Material Method
------	------	------
------	------	------

Lithology: Andesitic Tuff, Clastic Sediment/Sedimentary, Greenstone

Comments: Unnamed Upper Triassic undifferentiated volcanics and sediments overlie Permian-Carboniferous volcanics and sediments.

Geological Setting

Done   Unknown Zone

http://minfile.gov.bc.ca/secure/report.aspx?No=104B%20%20001 - Microsoft Internet Explorer

File   Edit   Go To   Favorites   Help

Address http://minfile.gov.bc.ca/secure/report.aspx?No=104B%20%20001

2 / 2   65.2%

Geological Setting

Tectonic Belt:	Intermontane	Physiographic Area:	Boundary Ranges
Terrane:	Stikine		
Metamorphic Type:	Regional	Relationship:	Pre-mineralization
Grade:	Greenschist		
Comments:	Located near Coast Crystalline-Intermontane boundary.		

Inventory

Thursday, June 7, 2007   MINFILE Number: 104B 001   Page 1 of 2

Ore Zone:	SAMPLE	Year:	1948
Category:	Assay/analysis	Report On:	N
Quantity:	0 tonnes	NI 43-101:	N
Sample Type:	Grab		

Commodity	Grade
Silver	370.9000 grams per tonne
Copper	3.4300 per cent
Lead	5.0400 per cent
Zinc	1.4700 per cent

Reference: Geological Survey of Canada, Memoir 246, page 78.

Capsule Geology

Along the Iskut River and to the south, are Permian to Carboniferous greenstone to clastic sedimentary rocks of the Paleozoic Stikine Assemblage. These rocks are regionally metamorphosed to greenschist facies nearing the Coast Plutonic contact. Unconformably overlying these rocks are undifferentiated Upper Triassic andesitic volcanic to clastic sedimentary rocks that may be correlative with upper members of the Stuhini Group.

The Johnson River showing is a well defined fracture vein zone, approximately 0.3 metre wide, varying locally in width up to 3.0 metres. The fracture vein system strikes 220 degrees dipping 60 degrees northwest, and consists predominantly of quartz, with lesser galena, chalcopyrite, tetrahedrite, sphalerite and pyrite. A rep- resentative sample of the better part of the main vein assayed trace gold, 370.9 grams per tonne silver, 3.43 per cent copper, 5.04 per cent lead and 1.47 per cent zinc (Geological Survey of Canada, Memoir 246, page 78).

Bibliography

GSC MAP 9-1957; 311A; 1418A
GSC MEM *246, p. 77-78
GSC P 89-1E, pp. 145-154
Equity Preservation Corp. Compilation: Stewart-Sulphurets-Iskut,   Dec. 1988, (Showing No. B8)

Date Coded: 1985/07/24   Coded By: BCGS   Field Check: N

Done   Unknown Zone

Production Detail Report

The Production Detail report is a listing of annual production figures for one occurrence.

It is important to note that many of the occurrences in the MINFILE database do not have production figures. In this case, you will be unable to select the Production report or it will not be available to you.   While many MINFILE occurrences do not have production data, those that do may have several pages of it. The Production report for an occurrence which has produced three commodities for the past 31 years, for example, will have a production report of over a page in length.

| | Zinc | 22,523 kilograms | 49,655 pounds |
| | Lead | 14,737 kilograms | 32,490 pounds |

Comments:

1949   Includes 36 tonnes mined in 1948. Annual Report 1949.

Done   Unknown Zone

Inventory Detail Report

The Inventory Detail report is a listing of reserves or resources one occurrence.

It is important to note that many of the occurrences in the MINFILE database do not have inventory figures. In this case, you will be unable to select the Inventory report or it will not be available to you. While many MINFILE occurrences do not have inventory data, those that do may have several pages of it.

http://minfile.gov.bc.ca/secure/report.aspx?f=PDF&r=Inventory_Detail.rpt&minfilno=082ENE003 - Microsoft Internet Expl...

File   Edit   Go To   Favorites   Help

Back   Search   Favorites

Address   http://minfile.gov.bc.ca/secure/report.aspx?f=PDF&r=Inventory_Detail.rpt&minfilno=082ENE003   Go   Links

1 / 1   85.5%   Find

MINFILE Inventory Detail Report
BC Geological Survey
Ministry of Energy, Mines & Petroleum Resources

BRITISH COLUMBIA

| MINFILE Number: | 082ENE003 | Name: | UNION | | Status: | Past Producer |

Ore Zone/ Year/Report On	Tonnage/ Category	Commodity	Grade	Reference/ Comments
DUMPS	16 kt	Silver	65.0000 g/t	Assessment Report 13710.
	Inferred	Gold	2.2000 g/t	
1984 Y				
MAIN VEIN	7 kt	Silver	1858.0000 g/t	Assessment Report 13710.
	Possible	Gold	32.5000 g/t	Average width of 1.5 metres.

1984	Y					
SOUTH		7	kt	Silver	294.0000 g/t	Assessment Report 13710.
		Possible		Gold	8.7000 g/t	Average width of 1.5 metres.
1984	Y					

Done   Unknown Zone

Summary Production Report

The Summary Production Detail report is a listing of annual production figures for more than one occurrence.

It is important to note that many of the occurrences in the MINFILE database do not have production figures. In this case, you will be unable to select the Production report or it will not be available to you.   While many MINFILE occurrences do not have production data, those that do may have several pages of it. If you request a production report for ten occurrences which have production figures for the past 50 years, you will find that a substantial number of pages is generated. It is advisable that you preview the report or narrow the database to only a few occurrences BEFORE generating a report to conserve paper.

http://minfile.gov.bc.ca/secure/report.aspx - Microsoft Internet Explorer

File Edit Go To Favorites Help

Back | Search Favorites | Address http://minfile.gov.bc.ca/secure/report.aspx Go Links

1 / 208 85.5% Find

Summary Production Report
BC Geological Survey
Ministry of Energy, Mines & Petroleum Resources

BRITISH COLUMBIA

| MINFILE Number | 082ENW002 | Name | BLUE HAWK | First Year | 1934 | Last Year | 1934 |

	Metric		Imperial	
Mined	5	tonnes	5	tons
Milled	0	tonnes	0	tons

Recovery				
Silver	560	grams	18	ounces
Gold	156	grams	5	ounces

| MINFILE Number | 082ENW018 | Name | SILVER KING | First Year | 1939 | Last Year | 1941 |

	Metric		Imperial	
Mined	244	tonnes	268	tons
Milled	0	tonnes	0	tons

Recovery				
Silver	15,116	grams	486	ounces
Gold	1,618	grams	52	ounces

| MINFILE Number | 082ENW028 | Name | KELLY | First Year | 1926 | Last Year | 1927 |

	Metric		Imperial	
Mined	2	tonnes	2	tons

Summary Inventory Report

The Summary Inventory Report is a listing of reserves or resources on more than one occurrence.

It is important to note that many of the occurrences in the MINFILE database do not have inventory figures. In this case, you will be unable to select the Inventory report or it will not be available to you.   While many MINFILE occurrences do not have inventory data, those that do may have several pages of it. We advise that you narrow the database to only a few occurrences BEFORE generating an Inventory Report or preview the report prior to printing to conserve on paper.

082ENW028		082E12E	SAMPLE	0.00 t	N	Silver	3428.0000 g/t
KELLY		Past Producer				Lead	50.0000 %
49 35 01 N	119 43 51 W	Osoyoos	1906	Assay/analysis			
11 (NAD 83)		I05:Polymetallic veins					
5495919N	302616E	Ag-Pb-Zn+/-Au					
			Minister of Mines Annual Report 1906, page 172.				

Done   Unknown Zone

F. Downloads

You can download your MINFILE search results in a text file. The files MINFILE Numbers, Mineral Occurrence Data, Production Data and Inventory Data can be used for custom reports with most database management software. The Extracts are available in one format: text (.txt) files. They can be saved to your hard drive or viewed on the screen.

Downloading Files

To download the MINFILE Numbers, Mineral Occurrence Data, Production Data or Inventory Data returned in the search results:

From the MINFILE Search Results page

1. Select the file to download

Print Preview	PDF ∨	-- SELECT REPORT -- ∨	☑
Download	SELECT DOWNLOAD ∨		
Refine Search	SELECT DOWNLOAD		
	MINFILE Numbers		
	Mineral Occurrence Data		
	Production Data		
	Inventory Data		
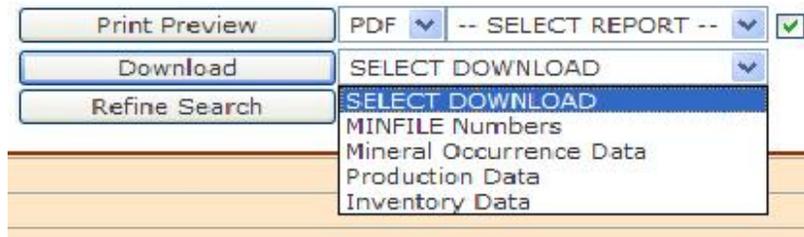
2. Then click **Download**.

3. The file download dialog box opens with the following options:

Do you want to open or save this file?

Name: InventoryData.txt
Type: Text Document, 75.7 KB
From: 142.36.86.11

Open   Save   Cancel

While files from the Internet can be useful, some files can potentially harm your computer. If you do not trust the source, do not open or save this file. What's the risk?
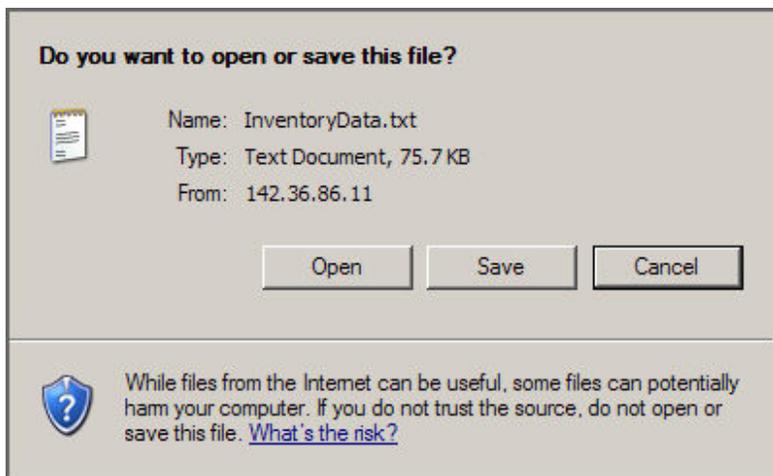
1. Select **Open,** the file is displayed as a txt file in notepad - you then have the option to save the file or cancel

-OR-

2. Select **Save** from the download dialog box - The save as dialog box opens - you have the option to save your file or cancel.

MINFILE Numbers Download

This is a text file containing only the MINFILE numbers from your search results. The text file can be saved to your hard drive and searched on again. Use the Basic or Advanced Import Numbers Tab to import the file back into MINFILE to perform a new search.

Note: Only the MINFILE numbers are saved. No other information is included.

Mineral Occurrence Data Download

This is a text file containing selected fields from the corporate database for all records returned in the search.

These fields are specifically MINFILE No.; Name 1, Name 2; Status Code, Status Description; Latitude, Lat_Deg, Lat_Min, Lat_Sec, Lat_Hemi; Longitude, Lon_Deg, Lon_Min, Lon_Sec, Lon_Hemi; UTM_Zone, UTM_North, UTM_East; Elev; Commodity Code 1, Commodity Code 2, Commodity Code 3, Commodity Code 4, Commodity Code 5, Commodity Code 6, Commodity Code 7, Commodity Code 8; Commodity Description 1, Commodity Description 2, Commodity Description 3, Commodity Description 4, Commodity Description 5, Commodity Description 6, Commodity Description 7, Commodity Description 8; .Deposit Type Code 1, Deposit Type Code 2; Deposit Type Description 1, Deposit Type Description 2; . Deposit_Class Code 1, Deposit_Class Code 2; Deposit_Class Description 1, Deposit_Class Description 2; Tectonic Belt Code, Tectonic Belt Description; Terrane Code, Terrane Description; NTS Map 1, NTS Map 2, Production, Reserves, Region_Code 1 , Region_Description 1, Region_Code 2, Region_Description 2.

Production Data Download

The Production Data download lists production totals for each occurrence in your search criteria. These fields are specifically MINFILE No.; Name; Mined; Milled, Gold; Silver; Copper; Lead; Zinc; Commodity 1, Quantity 1; Commodity 2, Quantity 2; Commodity 3, Quantity 3; First Year of Production, Last Year of Production.

Note: If there is no production data for an occurrence - the MINFILE occurrence will not be included in the file.

Inventory Data Download

The Inventory Data download lists the inventory tonnage and commodity grade, with references and comments for each occurrence in your search criteria. These fields are specifically MINFILE No.; Name; Ore Zone Code, Ore Zone Description; Year; Category Code, Category Description; Calculation; Tonnes; Gold; Silver; Copper; Lead; Zinc; Coal; Limestone; Silica; Commodity 1, Grade 1; Commodity 2, Grade 2, Commodity 3, Grade 3; Comment; Reference.

 Note: If there is no inventory data for an occurrence - the MINFILE occurrence will not be included in the report.

MINFILE User's Manual - Chapter V
MINFILE Data Entry

A. **MINFILE/www Coding Card Form**
B. **Mandatory Fields**
C. **Identification/Location Tab**
D. **Mineral Occurrence Tab**
E. **Host Rock Tab**
F. **Geological Settings Tab**
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J. **Coding Messages Tab**
K. **Printing a Report from the Coding Card**
L. **Obtaining Help from the Coding Card**
M. **Coder Task List**

A. MINFILE/www Coding Card Forms

The MINFILE/www Coding Card can be used to enter a new MINFILE occurrence or revise an existing occurrence. Data Entry is done exclusively online via MINFILE/www and it's Coding Card. BC Geological Survey staff (see contacts in Chapter VII) and pre-authorized users are permitted to make revisions to the corporate MINFILE database. To obtain authorization to capture mineral occurrence data online please contact the BC Geological Survey. You will be asked to provide an email address where you may be contacted in the event that the data submitted requires further clarification. (Should your email address change over time please notify the MINFILE office). They will also add you to the appropriate user tables and you will be provided with the secure address to the MINFILE/www Coding Card which is transparent to common users.

You can enter the entire card at once and submit it, or save a partially completed card.

New MINFILE/www coding cards (via a separate and secure site) are accessed by selecting *Add New Occurrence* on the task bar on the left.

MINFILE revisions are accessed by searching and displaying the MINFILE record and clicking *Revise this Occurrence* from the MINFILE search results.

Add New MINFILE Occurrence

This indicates that a new occurrence is being created and all the data will be entered under a newly assigned MINFILE number. The official MINFILE numbers are assigned by the MINFILE staff after the record has been submitted and approved.

To create a new MINFILE Occurrence:

1. Select *Add New Occurrence* from task bar.
2. The coding card form opens on the Identification and Location tab.

Revise MINFILE Occurrence

This indicates that the data filled in on the coding form replaces or should be added to the existing data for the MINFILE record. Any change to the data, from a minor change to a major rewrite, is considered to be a revision.

A MINFILE/www Coding card revision can only be accessed by searching the MINFILE database for the

current record.

To revise an existing MINFILE occurrence record:

1. Search MINFILE to locate the record you want to revise.

HINT: Remember that you must enter blanks in the correct spot when entering a MINFILE Number. For example, if you enter '082M001', you will get "no search results". The MINFILE Number must be entered as '082M__001' or '082M(space)(space)001"
 (9 characters).

NOTE: The British Columbia Geological Survey is the only client that can assign MINFILE numbers. MINFILE numbers are assigned based on NTS map sheet number. The first 4 to 6 digits of a MINFILE number represent the NTS map sheet which contains the occurrence; the remaining 3 digits are part of a numerical list of occurrences on that map sheet. For example, the first occurrence for NTS Map Sheet 082M would have the number "082M__001". Similarly, the 100th occurrence for the same map sheet has the number "082M__100".

2. From the MINFILE search results page click the MINFILE number to display the record summary.
3. The record summary page will open.
4. Click the *Revise this Occurrence* button.
5. The MINFILE/www Coding Card revision form opens. The fields are already populated with all the current data.

Note: You are working on a copy of the MINFILE Occurrence database record. After the record has been submitted it must be approved by MINFILE staff and then the MINFILE Occurrence database will be updated with the changes. There may be a lag time in between when occurrences are submitted and when they are approved. During this time the record will not be available for editing purposes.

Coding Card Options

You can enter the entire card at once and submit it, or save a partially completed card. To view your own work in progress see Coder Task List. Note that you will not be able to see edits in progress from other coders.

Data fields can be mandatory or optional. If you submit a coding card before all the mandatory fields have been entered you will get an error message detailing the fields that are missing.

Save - saves the MINFILE/www Coding Card information.
Note: After a card has been saved you can edit it at any time from the coders task list.

Submit: - submits the card to the Ministry for approval. Clicking *Submit* will also save any information entered.

Note: Once the card has been submitted, a coder will no longer be able to edit the record. The Coder must wait until the Ministry approves the edits and the record will then become available for viewing and/or further editing if required.

Delete: - deletes the information - no further action is required. Delete will delete a new coding card or a coding card revision - it does not delete an active occurrence record in the MINFILE database.

Note: You can not delete a coding card after you've submitted it. If you want the record deleted you will have to contact a member of the MINFILE Team (see Conclusion for details).

Entering a Coding Card From a Remote Site - Security Alerts

If you are logged into the system from a remote site you may get a Security Alert when you click *Save*. Just ignore it and proceed.

Adding Multiple Selections

Dynamic Multi-Select Grid

NTS Map(s)	
091B/15W	[x]
122B/11W	[x]
	[Add]

The dynamic multi-select grid allows you the to add more than one selection into a table.

For example: An occurrence may have multiple names and commodities.

1. Make your selection from the drop down box(es) and/or text box(es).
2. Click the Add button.
3. The selection is added as a row in the table above.

You can follow this same process to add multiple selections to the table.

To delete a row from the table click the **X** button and the row will be removed from the table.

Note: When saving, items are saved in the order that they appear in the grid (i.e. their ranking). To reorder items in the grid, the items can be deleted and re-entered or you can use the drag and drop function.

B. Mandatory Coding Fields

Some MINFILE fields are mandatory - the record will not be accepted if the mandatory fields are not entered correctly.

If you submit a coding card before all the mandatory fields have been entered you will get an error message detailing the fields that are missing.

Mandatory MINFILE Occurrence fields are:

Identification/Location Tab

- MINFILE Name - at least one MINFILE name must be entered
- Status - at least one status must be entered
- Region - A region must be selected
- Latitude and Longitude OR UTM Zone, Northing and Easting must be entered
- NTS Map number OR BCGS Map number must be entered
- Mining Division
- Location Certainty

Mineral Occurrence Tab

- Commodity - at least one commodity must be entered
- Significant Mineral - at least one
- Deposit Character
- Deposit Classification

Host Rock Tab

- Dominant Host
- Formal or Informal Host - at least one of the two hosts
- Lithology - Rock Type - at least one

Geological Settings Tab

- Tectonic Belt
- Physiographic Region
- Terrane

Inventory Tab

- Reserves/Resources Inventory - if ore zone is filled in the year is mandatory
- Commodity - at least one commodity must be entered and it must also be captured on the Mineral Occurrence Tab to be accepted on the Inventory Tab
- Reference is required
- If assay/analysis is selected, then Sample Type is mandatory

Production Tab

- If production year is entered - then a commodity is mandatory
- The production data is not mandatory if year isn't entered
- Reference is required if other Production fields are populated

Capsule Geology/Bibliography Tab

- Capsule Geology Comments
- Bibliography Comments

C. Identification/Location Tab

The Identification/Location screen is the first screen you will see when you activate the MINFILE/www Coding Card. Enter the mineral identification and location information on this tab. It contains all of the locational information for the occurrence including names for the occurrence, its status, and a brief comment on the location.

The MINFILE/www Coding Card is equipped with error checks, such that if you attempt to submit data which does not meet all of the requirements, you will be prompted to change the appropriate fields with a message such as "Status is required", or "BC Latitude must be between 48 and 60". When you receive such a message the edits must be made to the required fields and submitted again.

Identification

Field	Description
MINFILE Number	Leave this field blank. This is the unique 9-character identification number assigned by the MINFILE staff after the record has been submitted for approval.

MINFILE Name	At least one MINFILE name must be entered.
*Mandatory Field	Enter the most common name first and click **Add.** This will be the primary MINFILE name.
	Note: You must click *Add* after each name has been entered.
	To delete a name entry click the **X** next to the name.
	You may enter up to 16 names for each occurrence.
	Note: When saving, items are saved in the order that they appear in the grid (i.e. their ranking). To reorder items in the grid, the items can be deleted and re-entered or the drag and drop function can be used.
NMIN	Enter a NMIN number (National Mineral Inventory Number).
	This is a cross-reference to the National Mineral Inventory file located at the Mining Sector of Natural Resources Canada in Ottawa.
Status	Select the status of the mineral occurrence at the time of coding.
*Mandatory Field	Each occurrence can have only one status.
Mining Method	Select either open pit or underground.
	If the status is producer or past producer then either open pit or underground must be selected.
Region	BC is the default region and is always displayed at the beginning of the list.
*Mandatory Field	If the location is not BC - *X* out or delete "BC" and add another selection from the list box and click *Add*.

Location

*Mandatory Field

Location is a mandatory field.

Latitude and Longitude OR UTM Zone, Northing and Easting must be entered.

The system will not allow you to enter both options. If you starting entering data in the latitude or longitude fields, the UTM Zone, northing and easting fields become unavailable. You will not be able to enter data in those fields, they will be populated automatically.

Use the *Clear Location* button to clear all location fields and make all fields available again.

Field	Description
Latitude	Enter the latitude of the mineral occurrence in degrees-minutes-seconds.
*Mandatory Field	The valid range in British Columbia is between 48 and 60 degrees north. Coordinates outside this range will be rejected by the system.
Longitude	Enter the longitude of the mineral occurrence in degrees-minutes-seconds.
*Mandatory Field	The valid range in British Columbia is between 114 to 140 degrees west. Coordinates outside this range will be rejected by the system.

NAD   Select the appropriate NAD. NAD 83 is the default.

*Mandatory Field

UTM Zone   Select a UTM Zone from the list box. The UTM Zone must fall within the
                                       British Columbia boundaries (between 7 and 11).

*Mandatory Field

Northing   These are quoted as a seven-digit number in metres north of the equator.

*Mandatory Field   Valid northing ranges in BC are 5370000 to 6652000 metres.

Easting   These are quoted as a six-digit number in metres.

*Mandatory Field   Valid easting ranges in BC are 290000 to 710000 metres.

Electoral District   Select an electoral district from the list box. This field is auto-populated.

Forest District   Select a forest district from the list box. This field is auto-populated.

NTS Map   Select the NTS Map number(s) from the list box. Click *Add*.

*Mandatory Field if BCGS Map not
populated.

BCGS Map   Select the BCGS Map number(s) from the list box. Click *Add*.

*Mandatory Field if NTS Map not
populated.

Mining Division   Select Mining Division from the list box. This field is auto-populated. Click
                                       Add.

*Mandatory Field

Elevation   Enter elevation in metres above mean sea level. This field is auto-
                                       populated.

                                       Maximum acceptable value is 6000 metres.

Location Certainty   Select one location certainty radio button.

*Mandatory Field   (Indicates the relative precision of the occurrence location).

Field Check   Select the field checkbox if this occurrence has been checked in the field by
                                       Ministry personnel.

Location Comments   Add any pertinent information which may be relevant in clarifying material in
                                       the previous fields.

                                       Comments should be brief, informative and not merely a duplication of
                                       specific data entered in the data fields.

                                       An explanation of what exactly is at the location, (e.g., centre of outcrop,
                                       location of sample) and the reference must be entered here.

HINT: For location, you can enter either UTM's or Latitude/Longitude but not both. The program automatically converts UTM's to Latitude/Longitude or vice versa when submitted. However, when you change existing UTM data, the Latitude/Longitude will automatically be changed when you submit the data and vice versa. Note that the location information must be cleared before entering new coordinates or it freezes.

D. Mineral Occurrence Tab

This screen contains the mineralization information on the occurrence you are editing. Under this tab you can enter mineral occurrence information by commodity, mineralogy, alteration, deposit character, classification and type (based on BC Mineral Deposit Profiles).

Mineral Occurrence

Field	Description
Commodity *Mandatory Field	At least one commodity is mandatory. Select up to 15 commodities in decreasing order of importance. 1. Select the commodity from the drop down list box. 2. Click **Add** to save your selection. To delete a previous selection click the **X** next to the selection. **Note:** The commodities identified in the Inventory/Production tabs MUST be included in the commodity list on the Mineral Occurrence Tab for the MINFILE occurrence. Note: When saving, items are saved in the order that they appear in the grid (i.e. their ranking). To reorder items in the grid, the items can be deleted and re-entered or the drag and drop function can be used. Listed commodities should have a corresponding mineral in the significant mineral category.

Minerals

Field	Description
Significant *Mandatory Field	Minerals included in the significant category should contain some element of economic interest. 1. Select the significant type from the drop down list box. 2. Click **Add** to save your selection. To delete a previous selection click the **X** next to the selection. **Note:** You may select up to sixteen associated types. Note: When saving, items are saved in the order that they appear in the grid (i.e. their ranking). To reorder items in the grid, the items can be deleted and re-entered or the drag and drop function can be used. All minerals and their context should be identified in the Capsule Geology.

Associated	Select the Associated type from the drop down list box.
	Click *Add* to save your selection.
	To delete a previous selection click the **X** next to the selection.
	Note: You may select up to eight associated types.
	Note: When saving, items are saved in the order that they appear in the grid (i.e. their ranking). To reorder items in the grid, the items can be deleted and re-entered or the drag and drop function can be used.
	All minerals and their context should be identified in the Capsule Geology.
Alteration	Select the mineral alteration from the drop down list box.
	Click *Add* to save your selection.
	To delete a previous selection click the **X** next to the selection.
	Note: You may select up to eight mineral alterations.
	Note: When saving, items are saved in the order that they appear in the grid (i.e. their ranking). To reorder items in the grid, the items can be deleted and re-entered or the drag and drop function can be used.
Alteration Type	Select the alteration type from the drop down list box.
	Click *Add* to save your selection.
	To delete a previous selection click the **X** next to the selection.
	Note: You may select up to five alteration types.
	Note: When saving, items are saved in the order that they appear in the grid (i.e. their ranking). To reorder items in the grid, the items can be deleted and re-entered or the drag and drop function can be used.

Deposit

Field	Description
Character	This field is mandatory, enter at least one characteristic.
*Mandatory Field	Select up to four characteristics in order of importance.
Classification	This field is mandatory, enter at least one classification.
*Mandatory Field	Select up to four classifications in order of importance.
Age of Mineralization	Select the age of mineralization from the list box.
Isotopic Age	Enter the Isotopic age in millions (Ma) or billions (Ga) of years. Associated age dating errors should be included (e.g., 48.7 +/- 1.2 Ma).
Material Dated	Enter the actual material(s) used in the dating procedure (e.g., biotite, hornblende, fossil, etc.). The information is used to support the Isotopic Age field.
Dating Method	Select the dating method used for the information entered in the Isotopic Age field.
Deposit Type	Select up to four deposit types in order of importance.

Deposit Configuration:

Three optional fields are available to identify the shape, structural character and size of a mineral occurrence. These fields are usually reserved for those occurrences which have received sufficient exploration and development to have outlined a deposit.

Shape of Deposit	Select the deposit shape from the drop down list box.
	Select up to two shape modifiers from the drop down list box.
Shape Modifier	These fields cannot be used unless deposit shape is identified. The database will accept up to two modifiers.
	The deposit dimensions are defined in metres, in a sequence of maximum to minimum dimensions (Ex: 376 x 230 x 4).
Deposit Dimension	Enter the dimensions in the text boxes (in any order). The deposit dimensions will be automatically configured from maximum to minimum dimensions.
	A deposit dimension will automatically default to zero if one of the three boxes is not captured.

Attitude:

Specific directional measurements may be entered which are pertinent to understanding the orientation and/or setting of a mineral occurrence.

Strike	The strike direction, as measured in the field, may be entered as a three-digit number from 001 to 360 degrees. Magnetic bearings should be converted to azimuth. Leading zeros should be included in the coding.
Attitude Dip	The dip, from horizontal to vertical, may be entered as two digits from 01 to 90 degrees. Dip should be further defined using a directional indicator of N, S, E or W for the four major compass directions (Dip is perpendicular to strike).
Attitude Trend	The azimuth of the trend, as measured in the field, may be entered as a three-digit number from 001 to 360 degrees. Leading zeros should be included.
Attitude Plunge	Plunge, from horizontal to vertical, may be entered as two digits from 01 to 90 degrees. (Plunge is in the direction of structural trend).
Structural Comments	Identify the reference used for Isotopic age.
Significant Mineral Comments	Enter optional text comments pertinent to understanding the mineralogy.
Associated Mineral Comments	Enter optional text comments pertinent to understanding the mineralogy.
Alteration Mineral Comments	Enter optional text comments pertinent to understanding the mineralogy.

E. Host Rock Tab

The Host Rock Tab allows you to enter information about the dominant host, rock types, rock modifiers, formal hosts, informal hosts and stratigraphic age.

Host Rock

Field	Description

| Dominant Host | Select the radio button identifying the most significant host rock type. |

The host rock is normally defined as the type of rock in which the mineralization occurs.

Only one dominant host rock is accepted by the system.

Formal Host

Field	Description

Each MINFILE occurrence requires at least one formal or informal host for a maximum of two formal and / or informal hosts for any occurrence.

Enter or select all the formal host criteria then click *Add* to save your selection.

| Stratigraphic Age | Identifies the geological age of the host rock in terms of era, period or epoch. |

*Mandatory Field

Select a stratigraphic age from the list box.

| Group | Select the group from the list box. |
| Formation | |

If the corresponding formation is not known - select unknown.

*Mandatory Field

| Isotopic Age | Isotopic Age is a text field for a specific host rock age, quoted in millions (Ma) or billions (Ga) of years. Associated age dating errors should be included (e.g., 48.7 Ma +/- 1.2 Ma). A reference should be included in the Host Rock Comment field. |

The stratigraphic age and the isotopic age must correspond.

| Dating Method | The dating method used to determine the isotopic age must be identified. |

Select the dating method material used from the list box.

| Material Dated | This is a text field to identify the actual material(s) used in the dating procedure (e.g., biotite, hornblende, fossil, etc.). |

The information is used to support the Isotopic Age field.

Click *Add* to save all the formal host fields entered.

Informal Host

Field	Description

Each MINFILE occurrence requires at least one formal or informal host for a maximum of two formal and / or informal hosts for any occurrence.

Enter or select all the formal host criteria then click *Add* to save your selection.

| Stratigraphic Age | Identifies the geological age of the host rock in terms of era, period or epoch. |

*Mandatory Field

| Igneous/Metamorphic/Other | Select an igneous/metamorphic/other modifier from the list box. |

Isotopic Age	Isotopic Age is a text field for a specific host rock age, quoted in millions (Ma) or billions (Ga) of years.
	Include Associated age dating errors (e.g., 48.7 Ma +/- 1.2 Ma).
	Include a reference in the Host Rock Comment field.
	Note: The stratigraphic age and the isotopic age must correspond.
Dating Method	When an Isotopic age is given, the material used in the age determination procedure must be identified.
	Select the dating method material used from the list box.
Material Dated	When an Isotopic age is given, the material used in the dating procedure must be identified.
	This is a text field to identify the actual material(s) used in the dating procedure (e.g., biotite, hornblende, fossil, etc.).
	The information is used to support the Isotopic Age field.
	Click *Add* to save all the informal host fields entered.

Lithologies

Field	Description

The Rock Types/Lithologies must be included in the Capsule Geology description.

At least one Rock Type lithology must be entered for each occurrence.

1. Select the Rock Type from the drop down list box.
2. Select up to three modifiers per Rock Type from the Modifiers drop down list boxes.
3. Click *Add* to save your selection.

Select up to 10 Rock Types in order of importance.

Each Rock Type may have up to three modifiers.

Rock types should correspond with the Dominant Host Rock category.

Rock Type	Select a rock type from the list box.
*Mandatory Field	
Modifiers	Select up to three rock type modifiers per rock type.
	Click *Add* to save all the fields entered.
	Note: These modifiers will be displayed in order, so it is important that you enter them in the order in which you wish them to appear.
Host Rock Comments	Enter optional host rock text comments pertinent to understanding the mineralogy.

F. Geological Settings Tab

The Geological settings tab allows you to entering information on tectonic belt, terrane and metamorphism.

Geological Settings

Field	Description
Tectonic Belt *Mandatory Field	Select the tectonic belt radio button. Auto-populated when coordinates entered under Identification/Location Tab. You may select only one tectonic belt.
Physiographic Region *Mandatory Field	Select a physiographic region from the list box. Auto-populated when coordinates entered under Identification/Location Tab.
Terrane *Mandatory Field	Select a terrane from the list box. Click *Add*. A maximum of two may be selected.

Metamorphism

Field	Description
Type	The type of metamorphism associated with the occurrence. Select up to two types from the checkboxes. This is a mandatory field if the Relationship and/or Grade fields are used.
Relationship	This is the age-relationship of metamorphism to host rock mineralization. Select up to three relationship categories check boxes. This is a mandatory field if "type" (above) has been entered.
Metamorphic Grade	Select a metamorphic grade check box. You may select more than one check box. This is a mandatory field if "type (above)" has been entered.
Geological Setting Comments	Enter comments on the overall geological setting of the occurrence.

G. Inventory Tab

The MINFILE/www Coding Card includes space for information on deposit economics or mineral inventory.

MINFILE occurrences can have inventory data for multiple years and or multiple ore zones.

The inventory data is not mandatory if an ore zone is not entered. However if one or more ore zones are entered the following fields are mandatory for each ore zone:

1. Year
2. Commodity - at least one commodity must be selected. Only commodities previously entered and saved on the Mineral Occurrence Tab are available for selection.
3. Category
4. Reference is required. This is a bibliographical reference for the source of the reserve/resource/assay data quoted.
5. Sample Type is mandatory ONLY if assay/analysis is selected.

Add New Inventory Detail

When you select the Inventory Tab on a new MINFILE/www Coding Card the inventory detail box defaults to open up at the detail section after you click on **Add Inventory Detail**.

Inventory data is entered into a table in the inventory detail box.

1. Enter or select inventory detail from the drop down list boxes.
2. Click **Add**.

Save Inventory Detail

Inventory detail must be saved while the inventory detail section is open.

It is recommended that you click **Save** immediately after entering inventory data.

However if you leave the detail section open and make other changes on other tabs, then click **Save,** everything entered will be saved.

If you click **Close Inventory Detail** without saving you will loose all the data in the detail section of inventory.

Delete or Edit Inventory Detail

You can either delete all of the inventory data for a specific record or delete individual components of the inventory data for a specific record. If the occurrence already has inventory detail, the detail section is closed.

If an inventory record has been entered incorrectly, or needs modification - it must be deleted and re-entered.

Click the **Detail** button to view or edit inventory detail information.

1. Click the **X** button next to the record in the inventory detail section of the screen.
2. You will get a Popup message asking if you are sure you want to delete this record.
3. Click **OK.** This will delete the Inventory detail only. This will NOT delete the entire MINFILE record.
4. Then re-enter the detail info.
5. Click **Add.**
6. Click **Save.**

INVENTORY DETAIL

*(Please enter Detail Infromation, Commodity/Grade and Reference for selected Zone, Calculation and Categc

Zone: 10 MILE
Calculation: A
Category: Proven

To delete Inventory data click the X button next to the Inventory detail.

	Year	Quantity	Sample Type	Report On	NI 43-101	
	2000	3000		N	N	x
Detail Information:	2001	2000		N	N	x
		only for 'non-Assay'	- only for 'Assay'	☐	☐	Add

To delete Inventory detail from a saved record

After a record has been saved the inventory detail information can still be deleted.

1. Open the saved record from the task list.
2. Click the Inventory Tab.
3. Click *Detail* to open the inventory detail box.
4. Click the **X** button next to the record in the inventory summary section of the screen.
5. You will get a Popup message asking if you are sure you want to delete this record.
6. Click *OK.* This will delete the Inventory detail data only. This will NOT delete the entire MINFILE record.

To re-enter the detail info - click *Add Inventory Detail* to open the detail entry box again.

Inventory

Field	Description
Zone	Select a zone from the list box.
	An unlimited number of different ore zones may be identified for each occurrence.
	Note: The ore zone detail must be **saved** first before selecting another ore zone. The program will not allow you to select another zone without first saving the previous zone.
	If the category is Assay then the ore zone name should be generic such as adit, drill hole, main, rock, sample. etc
Calculation	Allows you to select calculation A or B from the list box.
	Calculation A should be the default and always filled in first.
	If there is another calculation for the zone in the same year then Calculation B would be completed.
	Note: Inventory detail must be **saved** first before selecting another calculation. The program will not allow you to select another calculation without saving the previous inventory detail.
	There should only be one calculation field for assay data.
Category	Select a category from the list box.
*Mandatory Field	**Note:** You cannot have an "Assay" category with the same ore zone name as another existing category for any given occurrence.
Year	Enter the year the inventory figures were published.
*Mandatory Field	This is mandatory information for any inventory data.
	If the inventory figures were calculated in any year prior to the official publication date, the source and year of the calculations should be identified in the comment field.

Quantity	Reserves or resources must be quoted in metric tonnes. General or approximate figures are only acceptable where no other information is available; this should be clearly explained in the comment field.
	This is not filled in for Assays.
Sample Type	Select a sample type from the list box. Sample type is only mandatory if an Assay/Analysis category is selected/chosen.
Report On	Select the report on checkbox to search on inventory that is included in a sum.
	An occurrence may have Reserve/Resource Inventory listed in more than one category. For example, a deposit may have a current "combined measured and indicated" resource and it may also have an historic "indicated" resource. The historic numbers are kept in the database but shouldn't be included in a calculation so the flag would be set at Off for the historic inventory.
NI 43-101	Select the NE 43-101 checkbox if Reserves/Resources are compliant with National Instrument 43-101. Include NE 43-101 references in comments.

Commodities / Grades

Field	Description
Commodity	At least one commodity is mandatory per calculation.
*Mandatory Field	The inventory information can have data on up to six commodities. These should reflect only those commodities which can be recovered from a deposit.
	Select the Commodities from the drop down list box.
	Note: The commodity must be entered on the Mineral Occurrence tab and **saved** before it appears in the drop down list. These are the only commodities that are available to use. You cannot enter a new commodity on the inventory tab.
Grades	Enter the grade of the commodity.
*Mandatory Field	Grades must be entered for each commodity listed. Grades are expressed in grams/tonne (precious metals) or per cent (all other commodities).
Units	Units are calculated automatically.
References	This is a bibliographical reference for the source of the reserve/resource/ assay data quoted.
*Mandatory Field	
Inventory Comments	Enter comments to identify information on cut-off grades or other data pertinent to the final figures.

Adding Inventory Detail for Multiple Years

More than one year can be entered in the Inventory detail section for each ore zone.

Adding Detail Information

In the inventory detail box click **Add Inventory Detail** and enter the first year:

1. Select the zone (Mandatory) from the list box
2. Select the calculation from the list box
3. Select the category (Mandatory) from the list box
4. Enter the year (Mandatory) in the text box
5. Enter the quantity (Mandatory) - unless Assay/Analysis was selected as the category OR enter the sample type for all other categories selected.

6. Click off the boxes for Report On and NI 43-101 fields if they apply to your record.

7. Click **Add**.

8. Select a commodity (Mandatory) from the drop down box. Type in the grade (Mandatory).

9. Click **Add**.

10. Type in Inventory comments and Reference (Mandatory).

11. Click **Save Inventory Detail** at top of the box.

12. **Save** the record for approval by Ministry.

Adding An Additional Year

To add ore zone detail information for more than one year

1. Enter the new year in the text box
2. Enter the quantity - only if Assay/analysis was not selected in the category.

OR

3. Enter the sample type if Assay/Analysis was the category selected.

4. Click **Add**.

The ore zone now has detail information for 2 years.

H. Production Tab

New production is entered beginning with the production year. If there are no reserves/resources/assay data for the occurrence you are capturing/editing, do not enter anything in this tab. Information on either ore mined (in tonnes) or ore milled (in tonnes) must be entered. Commodity production should be entered with precious metals quoted in grams and base metals or other commodities quoted in kilograms. If there are no figures for tonnes milled the field may be left blank.

Production Part 1

Production data must be entered in part 1 before proceeding to part 2.

1. Enter the data in part 1.
2. Click **Add.**
3. Clic*k* **Save.**

To delete a previous selection click the **X** next to the selection.

Field	Description
Production Year	Enter the year the production figures were published.

Tonnes Mined	Enter the number of tonnes mined.
Tonnes Milled	Enter the number of tonnes milled.
Comments	Enter text to clarify information reported in the production field for any given year. It should be used to indicate the reference source for new production figures not obtained from the Land Management and Policy Branch, or corrections to the reported figures. If there is no comment for a production year or years, it has originated from the Land Management and Policy Branch.

Production Part 2

Field	Description
Production Year	Select the production year from the drop down list box. Only production years entered in section 1 are available. (If the year was not entered in section 1 - it will not be included in the drop down list).
Commodity *Mandatory Field	Commodity is mandatory if the year has been entered. A quantity must be entered for each commodity in the commodity field. Precious metals are expressed in grams, and all other commodities are expressed in kilograms. 1. Select the commodity from the drop down list box. 2. Click *Add* to save your selection. 3. To delete a previous selection click the **X** next to the section. **Note**: The commodity must be entered on the Mineral Occurrence tab and **saved** before it appears in the drop down list. These are the only commodities that are available to use. You cannot enter a new commodity on the inventory tab.
Quantity Recovered	Enter the amount recovered in kilograms or grams.

I. Capsule Geology and Bibliography Tab

Capsule Geology

Field	Description
Comments *Mandatory Field	This is a mandatory field. Type, or 'copy and paste' capsule geology comments into this field. Comment text may be edited or deleted by selecting the text and using the delete key or using 'cut' or 'copy and paste'. This is a mandatory, detailed deposit description incorporating all the data in the coded fields and including more specific information on the geological setting and the controls of economic mineralization. As a general rule the following types of information should be included in every capsule geology: - Brief pertinent comments on location. - Brief comments on work history. - Host rock Group(s), Formation(s), age, lithology and structure (regional and local geology for important occurrences and only local geology for minor showings).

- All ore, gangue and alteration mineralogy.
- Comments on the genetic type and significant characteristics of the deposit.
- General ore controls.
- Wherever available, include average assay values, gross production figures, and/or inventory figures.
- Descriptions are to be in proper sentences, not in point form and no abbreviations please.

Bibliography

When you first open the Capsule Geology & Bibliography Tab you will see a Collapse Capsule Geology button at the top like this:
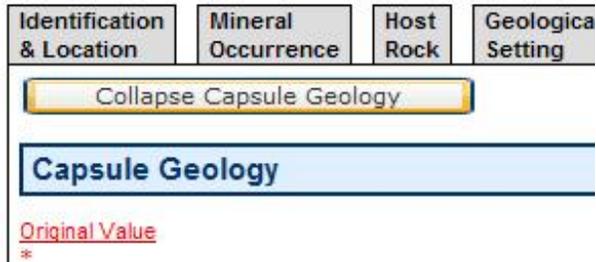
This button was created to allow users to temporarily minimize the capsule geology to focus on the bibliography if they are long in length. Once the capsule geology has been collapsed you will see a button at the top like this for re-opening the capsule geology. The bibliography will always remain open at the bottom of the screen.
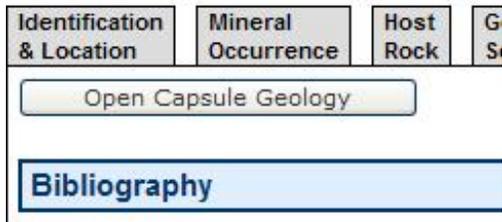
In the MINFILE Bibliography for any occurrence there are codes used, rather than full words (for example, "EMPR BULL" or "GSC MAP"). Each code represents a different publication which provided information on the selected occurrence. A listing of these codes and what each one means is contained in Appendix F to this manual. An '*' indicates a significant reference.

At the very bottom of the screen, underneath the bibiography text box you will see a button like this:
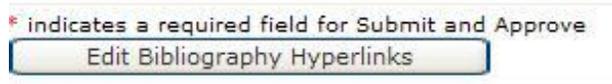
This button is used by Ministry staff to open the following screen which allows for cross-referencing of MINFILE bibliographic entries with the Property File database. If you are not trained to perform this task then please ignore this area. This manual does not cover this component. For further information on Property File please visit http://www.em.gov.bc.ca/mining/GeolSurv/Minfile/propfile.htm.

Edit Raw Bibliography

Documents

Search in: Title   [Search]

MINFILE Bibliography

○ **EMPR PF** (Airphoto composite, Scale 1:12,000, Sept. 1970)

All   [Get]

Field	Description
Comments	This is a mandatory field.
*Mandatory Field	Type or copy and paste Bibliography text into this field.
	Bibliographic text may be edited or deleted by selecting the text and using the delete key or using cut or copy and paste.
	The MINFILE bibliography is intended to identify all significant references for a deposit. In general, references are to be quoted in summary format, identifying publication, year and page. References of particular value in identifying or describing a deposit should be marked with an asterisk (*).
	Standard referencing techniques should be used for publications or references which are not included in the list of abbreviations below or which do not fit in a summary format. When listing the appropriate references, the coding geologist should attempt to list them in the same order as outlined in the listing of abbreviated codes.
	View MINFILE Bibliographic Codes in Appendix F
	Example of a standard reference:
	Price, R.A. (1962): Fernie Map-area, East Half, Alberta and British Columbia, Geological Survey of Canada, Paper 61-24.
	The corresponding MINFILE abbreviated reference is:
	"GSC P 61-24"
	"Property File" alone is not identified as a reference. The specific document used should be identified as the reference source and should be listed under the heading of "EMPR PF" which indicates that this item is found within the Ministry's Property File. Each item in the list is separated by a semicolon.
	For example:
	EMPR PF (Total Energold Ltd., Annual Report, 1989; Cassiar Mining Corp., maps and notes, 1987).
	The following formats should be followed in coding references:
	- List references in the same order as the listing of abbreviated codes. - All reference abbreviations must be in upper case letters. - All older versions of Ministry names should appear as "EMPR". - Two or more similar references should be joined, e.g., GSC MEM 217, p. 118 and GSC MEM 110 should be: GSC MEM 110; 217, p. 118.

- Order of references should be lowest number to highest or earliest date to present.
- Lists of references are separated by a semicolon (;) except for EMPR Assessment Reports which are separated by commas.
- An asterisk (*) should identify important references and should be placed before the number, year or name not at the beginning, e.g., EMPR ASS RPT 10172, *12470, 13131 and, EMPR AR *1901-13; 1914-98; *1936-45 GSC P 31; *45, p. 10.
- Property File references contain information in brackets. e.g., EMPR PF (Smith, B.J. (1939)......).
- Page numbers should follow the main reference separated by a comma e.g., EMPR OF 1987, p. 35 and GSC BULL, pp. 35-107.
- The following exceptions use hyphens rather than page designations due to the volume of references, e.g., EMPR EXPL 1977-33, EMPR GEM 1981-252, and EMPR AR 1900-122; 1901-383.

J. Coding Messages Tab

This text field allows the Ministry users to enter anecdotal information, sometimes confidential, regarding occurrences and anomalies. The coding message tab is not part of the MINFILE/www Coding Card. This tab is used to communicate between coders, administrators and approvers. These messages are not included in the MINFILE record. Coders and administrators have the ability to view coding messages and add new messages to the card.

K. Printing a Report from the Coding Card

You don't need to exit the Coding Card to get a print-out. Refer to the section on Printing Reports for more information.

The report also serves as a hard copy back-up.

Note: Printing a report while in the Coding Card is designed to always print to your default printer. However, before it is printed, the report will be shown in the Print Preview mode for viewing.

L. Obtaining Help from the Coding Card

There is no need to exit the Coding Card to get help. Simply click on the   button as shown on the screen print below (on the top right-hand corner of your screen) and the on-line help will open up in a new window using your browser. The Help screens also link to the Appendices and the MINFILE/www Coding Manual.

M. Coder Task List

This screen allows coders to view their own work in progress if you have previously saved a partially completed MINFILE/www Coding Card or saved and submitted a new occurrence. All items in the list are hyperlinked to the corresponding coding card for further editing and submission.

Note: If you cannot see your work on the task list it may have been approved by Ministry personnel or may still be in the queue awaiting approval. Check under search to see if it is in the corporate database. You can always edit it again if it still requires modifications.

Security

You must be logged in with a valid BCeID to access or enter data into a MINFILE/www Coding Card.
Please contact the MINFILE Team (details on Conclusion page) for access to the MINFILE/www Coding

Card.

Note: If logged into the system from a remote location you may get a <u>Security Alert</u> when you save a record.

Once you have successfully submitted an occurrence you will see the record you just coded on the screen, but the status will show the record as submitted and greyed out. The new information is automatically submitted to the Ministry for approval. Once approved it is stored permanently in the database. If the Ministry rejects an occurrence because it requires further information, etc. you will be notified via email. If your email address has changed since you were authorized to be an online coder please advise the MINFILE staff of your new email address.

MINFILE User's Manual - Chapter VI
Code Table and User Maintenance/Administration

A. [Code Table Maintenance](#)
B. [Authority Levels](#)
C. [Flow Chart](#)
D. [Individual Coding Record Approval](#)
E. [Administrator Task List](#)
F. [Coder Task List](#)

A. Code Table Maintenance

The Code Table Maintenance option is only available to those with the highest security level access.

Code tables are a very important component of table driven systems, such as MINFILE/pc and MINFILE/www. Code tables allow the flexibility to accommodate the changing needs of system users. System administration involves updating the code tables. The code tables contain information that controls various system functions, such as:

- suggesting possible values for data entry fields.
- controlling input to the data entry screens.
- allowing different users to access the system.

IMPORTANT: Modifications and deletions to the code tables can result in system inconsistencies. Since persons with limited MINFILE/pc system knowledge can inadvertently corrupt the database, please contact the Victoria MINFILE office to alert them of a new or possible code change.

This screen allows the user to add, delete and edit elements that appear in drop-down lists throughout the application.

Security: Ministry Users only.

Load Action: The drop-down list box "Table" is populated with the names of all of the parameter tables in the database.

Events: Add New - Adds a new row to the selected table.

Selection of an item in the List Box Table - Displays the contents of the corresponding parameter table in the grid.

Administration

The administration section is used to create and maintain project information.

Select the *Administration* folder on the left navigation menu.

From the **Table** drop down list box select the field to be updated.

Adding a New Record

1. Select *Add New* to add a new field to the table.
2. Enter the name of the new entry in the **Name** text box.
3. Select *Update* to save your entry and update the database - OR -
   Select *Delete* to cancel your entry.

Editing a Record

1. Select *Edit* next to the record to be edited. The name text box opens.
2. Edit the entry in the **Name** text box.
3. Select *Update* to save your changes and update the database -OR-
   Select *Cancel* to cancel your change to the record.

B. Authority Levels

The following is a description of the different levels of security and access to the MINFILE Mineral Occurrence system.

User Groups

There are 4 user groups:

Anonymous User

No authentication is required for this access as it is available to the general public over the Internet. Anonymous users can:

- Download an Offline copy of MINFILE.
- Search the online version of MINFILE.
- Download various forms of MINFILE data from their search results.

Coders

Coders are individuals, or employees of firms who are hired on a contractual basis to provide MINFILE updates.

These clients generally do not have an IDIR id and do not access MINFILE from within the IDIR domain. They can, however, be assigned either an IDIR or a BCeID account, with which they can:

- Complete and submit MINFILE data via the MINFILE Coding Card online;
- Return to an existing completed form prior to its approval and edit it;
- They will also be able to perform all the functions of Anonymous Users.

Ministry Users

Ministry users are responsible for the quality of data available through MINFILE.

Ministry users are authenticated on the IDIR domain and must provide a user id and password for authorization. All Ministry users are allowed the same access with the exception of the Database Administrator.

Ministry Users will be able to:

- Review edit and approve submissions from coders for entry into the database;
- Append/delete data; backup database; renumber a MINFILE occurrence;
- Perform all the functions of Anonymous Users and Coders.

Database Administrator

The database administrator is responsible for the administration of the MINFILE database.

Database Administrators are authenticated on the IDIR domain and must provide a user id and password for authorization.

Database Administrators will be able to:

- Add/edit/delete values from code tables for maintenance;
- Backup database;
- Alter data using SQL Server Console Manager including authorizing new users;
- Perform all the functions of Anonymous Users, Coders, and Ministry Users.

The administrator will also be responsible for enhancements/fixes to the new MINFILE database system as and when required.

C. Flow Chart

MINFILE Occurrence Coding Process

MINFILE
Occurrence set to
ACTIVE in
database

No

MINFILE occurrence at ACTIVE status.
May now be viewed by the public and
other coders.
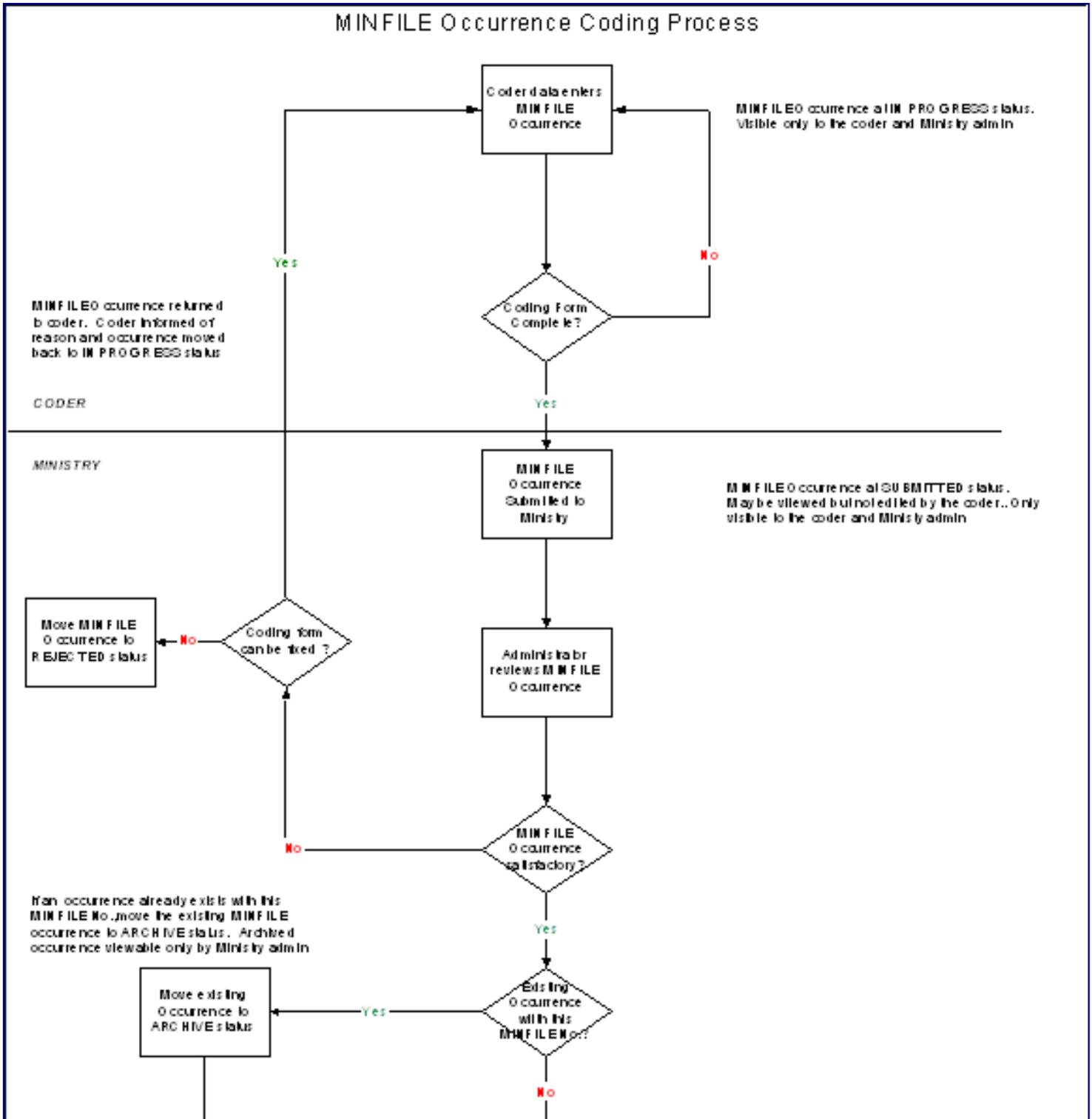
D. Individual Coding Record Approval

Description - The Ministry User can view the existing values in MINFILE for this occurrence along with the changes provided by the coder. The Ministry User can accept the record as is or make modifications prior to accepting or rejecting the record.

Security - Ministry Users only are allowed access to this screen.

Load Action - The form is populated with the data from the existing database record for the selected MINFILE occurrence along with the coder's entries.

Events - **Approve** Save's the coder's changes to the existing MINFILE record and updates the Modified By/ Modified Date fields.
- **Reject** Changes the state of the coding form record to "Rejected" and initiates an email to the coder with a hyperlink to the coding record in the body of the email.

E. Administrator Task List Bulk Approval Screen

The approval process is shown in the coding process flowchart.

The Task Screen shows all Coding Forms that are "in-progress" – that is, either submitted or started.

From this screen multiple coding forms can be selected for approval or deletion.

Items in the list are hyperlinked to the corresponding coding form to view, edit or approve an individual record.

Security - Only Ministry employees can access this screen.

Load Action - The screen is populated with all work in progress.

Events - *Approve All* Changes the status of all coding forms for which a check box is checked. If two checked coding forms update the same record an error is generated.

F. Coder Task List

This screen allows coders to view their own work in progress if you have previously saved a partially completed coding card or saved and submitted a new occurrence. All Items in the list are hyperlinked to the corresponding coding form for further editing and submission.

Note: If you cannot see your work on the task list it may have been approved by Ministry personnel. Check under search to see if it is in the corporate database. You can always edit it again if it still requires modifications.

Security

You must be logged in with a valid BCeID to access or enter data into the database via the MINFILE Coding Card. See Data Entry, Chapter V for further information on access to the MINFILE Coding Card.

Note: If logged into the system from a remote location you may get a Security Alert when you save a record.

MINFILE User's Manual - Chapter VII
Conclusion

The MINFILE/pc program is periodically upgraded to enhance the capabilities of the system, so stay tuned for future versions.

Coding and updating of the MINFILE data continues and efforts are being made to make the data standard, consistent and complete. The MINFILE team is also focused on incorporating Property File into the MINFILE bibliography.

Comments and requests for MINFILE information, MINFILE Coding Manual, MINFILE/pc and the MINFILE/pc User's Manual should be directed to:

<div align="center">

MINFILE
BC Geological Survey
Ministry of Energy, Mines & Petroleum Resources
P.O. Box 9333 STN PROV GOV'T
Victoria, BC, Canada   V8W 9N3

Office: 5th Floor, 1810 Blanshard Street
Phone: (250) 952-0429
Fax: (250) 952-0381
WWW: www.em.gov.bc.ca/Mining/Geolsurv/Minfile/default.htm

MINFILE Team Contacts:

Kirk Hancock (250) 952-0433 (MINFILE Geologist/Coder); EMail: Kirk Hancock@gov.bc.ca
Laura de Groot (250) 952-0387 (MINFILE Coding Card Access); EMail: Laura.DeGroot@gov.bc.ca
Larry Jones (250) 952-0386; EMail: Larry.Jones@gov.bc.ca

</div>

MINFILE products and other Ministry products can be purchased from:

<div align="center">

Crown Publications Inc.
106 Ontario Street
Victoria, B.C., V8W 1E7
Tel: (250) 386-4636 or Toll-free - 1-877-747-4636;
Fax: (604) 386-0221; Email: crownpub.bc.ca
WWW: http://www.crownpub.bc.ca

</div>

We sincerely hope that you will find MINFILE/www and MINFILE/pc easy, interesting and economical to use in all your geological endeavours.

<div align="center">

HAPPY COMPUTER PROSPECTING !!!

</div>

MINFILE User's Manual - Chapter VIII
Acknowledgements

Updates and revisions to Version 5.0 of this manual were provided by Laura de Groot with assistance from Spot Solutions and Sarah Meredith-Jones (Co-Op student).

The original manual text represents a cooperative effort of the staff of the MINFILE project and the Geoscience Information section under the direction of Sean Oliver from Simon Fraser University (Communications co-op student). Updates and revisions to the 4.5 version, and the formatting and construction of the online manual were provided by Ellen Ashdown, also from Simon Fraser University (Arts co-op student). Contributing staff consisted of: Laura de Groot, Dorthe Jakobsen, Larry Jones, Cindy McPeek, George Owsiacki, Kim Passmore and Garry Payie. Managing staff were Gib McArthur, Dave Lefebure and Derek Brown.

Contributions were also from Sierra Systems Consultants Inc., notably Brian Swaile, Peter Jones, Don Musgrove and Ben Kunka. Special thanks go to Gordon Lowe for his role in the early stages of program development.

MINFILE User's Manual - Chapter IX
Appendices - Table of Contents

Location Codes
MINFILE User's Manual: Appendix A

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A2: Tectonic Belt Code Table: *e12.dbf*
A3: Terrane Code Table: *e13.dbf*
A4: Physiographic Region Code Table: *e14.dbf*
A5. Region Table: *e40.dbf*
A6. Electoral District Code Table: *e42.dbf*
A7. Forest District Code Table: *e43.dbf*

A1. <u>Mining Division Code Table: *e09.dbf*</u>

Mining Division	Code
Alaska, USA	ALSK
Alberni	ALBI
Alberta	ALBT
Atlin	ATLN
Cariboo	CBOO
Clinton	CLIN
Fort Steele	FORT
Golden	GOLD
Greenwood	GRWD
Idaho, USA	IDHO
Kamloops	KAML
Liard	LIAR
Lillooet	LILL
Montana, USA	MNTN
N.W.T.	NWTR
Nanaimo	NIMO
Nelson	NELS
New Westminster	NWES
Nicola	NICO
Omineca	OMIN
Osoyoos	OSOY
Revelstoke	REVL
Similkameen	SIMK
Skeena	SKEE
Slocan	SLOC
Trail Creek	TRAL
Vancouver	VANC
Vernon	VERN
Victoria	VICT
Washington, USA	WASH
Yukon	YKON
Unknown	****

Total   32

A2. <u>Tectonic Belt Code Table: *e12.dbf*</u>

Tectonic Belt	Code
Insular	IN
Coast Crystalline	CC
Intermontane	IM
Omineca	OM

Location Codes

```
Foreland                    EA
Unknown                     **


Total                       6
```

A3. Terrane Code Table: *e13.dbf*

Terrane	Code
Alexander	AX
Ancestral North America	NA
Barkerville	KOB
Bowser Lake	JBL
Bridge River	BR
Cache Creek	CC
Cadwallader	CD
Cariboo	CAC
Cassiar	CA
Chilliwack	CK
Chugach	CG
Crescent	CR
Dorsey	DY
Gambier	JKG
Harper Ranch	QNH
Harrison	HA
Inklin	JI
Kootenay	KO
Lewes River	TRL
Methow	MT
Monashee	MO
Nisling	NS
Nisultin	KON
Okanagan	QNO
Overlap Assemblage	JKT
Pacific Rim	PR
Pelly Gneiss	PG
Plutonic Rocks	CPC
Porcupine	PC
Quesnel	QN
Shuksan	SH
Slide Mountain	SM
Stikine	ST
Taku	TU
Takwahoni	JT
Undivided Metamorphic Assembl.	M
Unknown	***
Windy McKinley	WM
Wrangell	WR
Yakutat	YA

Post Terrane Accretion Overlap Assemblages

```
Bowser Lake             JBL
Overlap Assemblage      JKT
Gambier                 JKG
Inklin                  JI
Lewes River             TRL
Takwahoni               JT
Unknown                 ***


Total                   47
```

A4. <u>Physiographic Area Code Table: *e14.dbf*</u>

<u>Physiographic Area</u>	<u>Code</u>
Adams Plateau	ADPT
Alberta Plateau	ALPT
Alsek Ranges	ASRG
Boundary Ranges	BNRG
Bowron Trench	BRTR
Cariboo Mountains	CBMT
Cariboo Plateau	CBPT
Cascade Mountains	CCMT
Chilcotin Plateau	CHPT
Continental Ranges	CNRG
Cassiar Mountains	CSMT
Dease Plateau	DSPT
Estevan Strandflat	ESSF
Fraser Lowland	FRLL
Fairweather Ranges	FWRG
Georgia Depression	GEDP
Glenora Trench	GOTR
Hecate Depression	HCDP
Hart Ranges	HRRG
Hyland Highland	HYHL
Hazelton Ranges	HZRG
Icefield Ranges	IFRG
Iskut Trench	IKTR
Kitimat Ranges	KTRG
Kitimat Trench	KTTR
Liard Lowland	LILL
Liard Ranges	LIRG
McGregor Plateau	MGPT
Muskwa Ranges	MKRG
Milbanke Strandflat	MLSF
Monashee Mountains	MOMT
Manson Upland	MSUP
Nechako Lowland	NCLL
Nechako Plateau	NCPT
Fiord Ranges (Northern)	NFRG
Northern Rocky Mountain Trench	NRMT
Nass Depression	NSDP
Nisutlin Plateau	NSPT
Nawwhitti Lowland	NWLL
Okanagan Highland	OKHL
Omineca Mountains	OMMT
Pacific Ranges	PCRG
Purcell Mountains	PUMT
Purcell Trench	PUTR

Pavilion Ranges	PVRG
Queen Charlotte Lowland	QCLL
Queen Charlotte Ranges	QCRG
Quesnel Highland	QUHL
Rabbit Plateau	RBPT
Rocky Mountain Foothills-North	RMFN
Rocky Mountain Foothills-South	RMFS
Fiord Ranges (Southern)	SFRG
Selkirk Mountains	SKMT
Skeena Ranges	SKRG
Spatsizi Plateau	SPPT
Southern Rocky Mountain Trench	SRMT
Shuswap Highland	SSHL
Thompson Plateau	THPT
Tahtsa Range	THRG
Taku Plateau	TKPT
Takla Trench	TKTR
Teslin Plateau	TSPT
Teslin Trench	TSTR
Tanzilla Plateau	TZPT
Vancouver Island Ranges	VIRG
Whitefish Range	WHRG
Unknown	****

Total   67

A5. Region Table: *e40.dbf*

CODE	DESCRIPTION (sort)	COMMENTS	CODE (sort)	DESCRIPTION
APCC	Adams Plateau - Clearwater Area	Mining Camp, Area or Belt	***	Unknown
AFG	Afghanistan	Country	AARM	Alice Arm
AKAC	Ainsworth - Kaslo Area	Mining Camp, Area or Belt	AB	Alberta
AL	Alabama	USA State	AFG	Afghanistan
AK	Alaska	USA State	AK	Alaska
AB	Alberta	Province in Canada	AKAC	Ainsworth - Kaslo Area
ALG	Algeria	Country	AL	Alabama
AARM	Alice Arm	Mining Camp, Area or Belt	ALG	Algeria
ALKC	Alta Lake Camp	Mining Camp, Area or Belt	ALKC	Alta Lake Camp
AND	Andorra	Country	AND	Andorra
ANG	Angola	Country	ANG	Angola
ANYX	Anyox Camp	Mining Camp, Area or Belt	ANYX	Anyox Camp
ARG	Argentina	Country	APCC	Adams Plateau - Clearwater Area
AZ	Arizona	USA State	AR	Arkansas
AR	Arkansas	USA State	ARG	Argentina
ATLC	Atlin Camp	Mining Camp, Area or Belt	ATLC	Atlin Camp
AUL	Australia	Country	AUL	Australia
AUS	Austria	Country	AUS	Austria
BPHC	Babine Porphyry	Mining Camp, Area or Belt	AZ	Arizona
BRGC	Babine Range	Mining Camp, Area or Belt	BAN	Bangladesh
BAN	Bangladesh	Country	BC	British Columbia
BIAC	Banks Island Area	Mining Camp, Area or Belt	BDI	Burundi
BEVC	Beaverdell Area	Mining Camp, Area or Belt	BEL	Belgium
BEL	Belgium	Country	BEN	Benin
BEN	Benin	Country	BEVC	Beaverdell Area
BOL	Bolivia	Country	BIAC	Banks Island Area
BOS	Bosnia-Hercegovina	Country	BLKC	Buttle Lake Camp
BOT	Botswana	Country	BOL	Bolivia
BRA	Brazil	Country	BOS	Bosnia-Hercegovina
BRVC	Bridge River Camp	Mining Camp, Area or Belt	BOT	Botswana

Location Codes

Code	Name	Type	Code	Name
BRAC	Britannia Area	Mining Camp, Area or Belt	BPHC	Babine Porphyry
BC	British Columbia	Province in Canada	BRA	Brazil
BUL	Bulgaria	Country	BRAC	Britannia Area
BUR	Burma	Country	BRGC	Babine Range
BDI	Burundi	Country	BRVC	Bridge River Camp
BLKC	Buttle Lake Camp	Mining Camp, Area or Belt	BUL	Bulgaria
CA	California	USA State	BUR	Burma
CAM	Cameroon	Country	CA	California
CAN	Canada	Country	CAM	Cameroon
CBKC	Cariboo - Barkerville Camp	Mining Camp, Area or Belt	CAN	Canada
CQBC	Cariboo - Quesnel Belt	Mining Camp, Area or Belt	CAR	Central African Republic
CASC	Cassiar Camp	Mining Camp, Area or Belt	CASC	Cassiar Camp
CAR	Central African Republic	Country	CBKC	Cariboo - Barkerville Camp
CHA	Chad	Country	CCAC	Copper Creek Area
CHI	Chile	Country	CGBC	Coquihalla Gold Belt
CPR	China, People's Republic of	Country	CHA	Chad
CO	Colorado	USA State	CHI	Chile
COL	Columbia	Country	CO	Colorado
PRC	Congo, People's Republic of	Country	COL	Columbia
CT	Connecticut	USA State	COS	Costa Rica
CCAC	Copper Creek Area	Mining Camp, Area or Belt	CPR	China, People's Republic of
CGBC	Coquihalla Gold Belt	Mining Camp, Area or Belt	CQBC	Cariboo - Quesnel Belt
COS	Costa Rica	Country	CRO	Croatia
CRO	Croatia	Country	CT	Connecticut
CUB	Cuba	Country	CUB	Cuba
CYP	Cyprus	Country	CYP	Cyprus
CZE	Czechoslovakia	Country	CZE	Czechoslovakia
DE	Delaware	USA State	DE	Delaware
DEN	Denmark	Country	DEN	Denmark
ECU	Ecuador	Country	ECU	Ecuador
EGY	Egypt	Country	EGY	Egypt
ETH	Ethiopia	Country	ETH	Ethiopia
FIJ	Fiji	Country	FIJ	Fiji
FIN	Finland	Country	FIN	Finland
FL	Florida	USA State	FL	Florida
FRA	France	Country	FRA	France
GAB	Gabon	Country	GA	Georgia
GA	Georgia	USA State	GAB	Gabon
GER	Germany	Country	GBAC	Gibraltar Area
GHA	Ghana	Country	GER	Germany
GBAC	Gibraltar Area	Mining Camp, Area or Belt	GGBC	Graham Island Gold Belt
GSAC	Goldstream Area	Mining Camp, Area or Belt	GHA	Ghana
GGBC	Graham Island Gold Belt	Mining Camp, Area or Belt	GMAC	Greenstone Mountain - Meadow Creek Area
GRE	Greece	Country	GRE	Greece
GRN	Greenland	Country	GRN	Greenland
GMAC	Greenstone Mountain - Meadow Creek Area	Mining Camp, Area or Belt	GRNC	Greenwood Camp
GRNC	Greenwood Camp	Mining Camp, Area or Belt	GSAC	Goldstream Area
GUA	Guatemala	Country	GUA	Guatemala
GUI	Guinea	Country	GUI	Guinea
GUY	Guyana	Country	GUY	Guyana
HI	Hawaii	USA State	HEDC	Hedley Camp
HEDC	Hedley Camp	Mining Camp, Area or Belt	HI	Hawaii
HVMC	Highland Valley Camp	Mining Camp, Area or Belt	HON	Honduras
HON	Honduras	Country	HUN	Hungary
HUN	Hungary	Country	HVMC	Highland Valley Camp
ID	Idaho	USA State	IA	Iowa
IL	Illinois	USA State	ICAC	Island Copper Area
IND	India	Country	ID	Idaho
IN	Indiana	USA State	IL	Illinois
INS	Indonesia	Country	IMAC	Iron Mask Area
IA	Iowa	USA State	IN	Indiana
IRA	Iran, Islamic Republic of	Country	IND	India
IRQ	Iraq	Country	INS	Indonesia
IRE	Ireland	Country	IRA	Iran, Islamic Republic of
IMAC	Iron Mask Area	Mining Camp, Area or Belt	IRE	Ireland
ICAC	Island Copper Area	Mining Camp, Area or Belt	IRQ	Iraq
ISR	Israel	Country	ISR	Israel
ITA	Italy	Country	ITA	Italy
JPN	Japan	Country	JOR	Jordan
JOR	Jordan	Country	JPN	Japan
KS	Kansas	USA State	KEN	Kenya
KY	Kentucky	USA State	KORG	Kootenay Region
KEN	Kenya	Country	KS	Kansas
KORG	Kootenay Region	Regional Geologist Region	KUW	Kuwait
ROK	Korea, Republic of	Country	KY	Kentucky
KUW	Kuwait	Country	LA	Louisiana
LRGC	Leech River Gold Belt	Mining Camp, Area or Belt	LES	Lesotho
LES	Lesotho	Country	LHBC	Lillooet River - Harrison Lake Belt
LHBC	Lillooet River - Harrison Lake Belt	Mining Camp, Area or Belt	LRGC	Leech River Gold Belt

Location Codes

Code	Name	Type	Code	Name
LA	Louisiana	USA State	MA	Massachusetts
MAG	Madagascar	Country	MAG	Madagascar
ME	Maine	USA State	MAL	Malaysia
MLW	Malawi	Country	MAU	Mauritania
MAL	Malaysia	Country	MB	Manitoba
MLI	Mali	Country	MD	Maryland
MB	Manitoba	Province in Canada	ME	Maine
MD	Maryland	USA State	MEX	Mexico
MA	Massachusetts	USA State	MI	Michigan
MAU	Mauritania	Country	MLI	Mali
MEX	Mexico	Country	MLW	Malawi
MI	Michigan	USA State	MN	Minnesota
MN	Minnesota	USA State	MO	Missouri
MS	Mississippi	USA State	MOR	Morocco
MO	Missouri	USA State	MOZ	Mozambique
MT	Montana	USA State	MS	Mississippi
MSBC	Moresby Island Skarn Belt	Mining Camp, Area or Belt	MSBC	Moresby Island Skarn Belt
MOR	Morocco	Country	MT	Montana
MOZ	Mozambique	Country	MWAC	Mt. Washington Area
MWAC	Mt. Washington Area	Mining Camp, Area or Belt	NAM	Nambia
NAM	Nambia	Country	NB	New Brunswick
NE	Nebraska	USA State	NC	North Carolina
NTH	Netherlands	Country	NCBC	Nicola Belt
NV	Nevada	USA State	NCRG	Northeast-Central Region
NB	New Brunswick	Province in Canada	ND	North Dakota
NH	New Hampshire	USA State	NDEC	New Nadina - Equity Area
NJ	New Jersey	USA State	NE	Nebraska
NM	New Mexico	USA State	NER	Niger
NDEC	New Nadina - Equity Area	Mining Camp, Area or Belt	NF	Newfoundland
NY	New York	USA State	NH	New Hampshire
NZL	New Zealand	Country	NIC	Nicaragua
NF	Newfoundland	Province in Canada	NIR	Nigeria
NIC	Nicaragua	Country	NJ	New Jersey
NCBC	Nicola Belt	Mining Camp, Area or Belt	NKAC	Nimpkish Area
NER	Niger	Country	NM	New Mexico
NIR	Nigeria	Country	NOR	Norway
NKAC	Nimpkish Area	Mining Camp, Area or Belt	NS	Nova Scotia
NC	North Carolina	USA State	NT	Northwest Territories
ND	North Dakota	USA State	NTH	Netherlands
NCRG	Northeast-Central Region	Regional Geologist Region	NV	Nevada
NWRG	Northwest Region	Regional Geologist Region	NWRG	Northwest Region
NT	Northwest Territories	Territory in Canada	NY	New York
NOR	Norway	Country	NZL	New Zealand
NS	Nova Scotia	Province in Canada	OH	Ohio
OH	Ohio	USA State	OK	Oklahoma
OK	Oklahoma	USA State	OMA	Oman, Sultanate of
OMA	Oman, Sultanate of	Country	ON	Ontario
ON	Ontario	Province in Canada	OR	Oregon
OR	Oregon	USA State	PA	Pennsylvania
PAK	Pakistan	Country	PAK	Pakistan
PAR	Paraguay	Country	PAR	Paraguay
PMDC	Pemberton District	Mining Camp, Area or Belt	PBSC	Purcell Belt (Sullivan)
PA	Pennsylvania	USA State	PE	Prince Edward Island
PER	Peru	Country	PER	Peru
PHI	Philippines	Country	PHI	Philippines
POL	Poland	Country	PMDC	Pemberton District
POR	Portugal	Country	POL	Poland
PE	Prince Edward Island	Province in Canada	POR	Portugal
PBSC	Purcell Belt (Sullivan)	Mining Camp, Area or Belt	PQ	Quebec
PQ	Quebec	Province in Canada	PRC	Congo, People's Republic of
QCIS	Queen Charlotte Islands	Area in British Columbia	QCIS	Queen Charlotte Islands
RI	Rhode Island	USA State	RI	Rhode Island
ROM	Romania	Country	ROK	Korea, Republic of
ROSC	Rossland Camp	Mining Camp, Area or Belt	ROM	Romania
RUS	Russia	Country	ROSC	Rossland Camp
RWA	Rwanda	Country	RUS	Russia
SSAC	Salmo - Sheep Creek Area	Mining Camp, Area or Belt	RWA	Rwanda
SGAC	Sarita - Gordon River Area	Mining Camp, Area or Belt	SAF	South Africa
SK	Saskatchewan	Province in Canada	SAU	Saudi Arabia
SAU	Saudi Arabia	Country	SBAC	Similkameen - Boundary Area
SEN	Senegal	Country	SC	South Carolina
SKBC	Sicker Belt	Mining Camp, Area or Belt	SCRG	South-Central Region
SLN	Sierra Leone	Country	SD	South Dakota
SRAC	Silver Standard - Rocher Deboule Area	Mining Camp, Area or Belt	SEN	Senegal
SBAC	Similkameen - Boundary Area	Mining Camp, Area or Belt	SGAC	Sarita - Gordon River Area
SLOC	Slocan Camp	Mining Camp, Area or Belt	SK	Saskatchewan
SLO	Slovenia	Country	SKBC	Sicker Belt
SOM	Somalia	Country	SLAC	Stump Lake Area
SCRG	South-Central Region	Regional Geologist Region	SLN	Sierra Leone

Location Codes

Code	Name	Type		Code	Name
SAF	South Africa	Country		SLO	Slovenia
SC	South Carolina	USA State		SLOC	Slocan Camp
SD	South Dakota	USA State		SMAC	Swakum Mountain Area
SWRG	Southwest Region	Regional Geologist Region		SOM	Somalia
SPA	Spain	Country		SPA	Spain
STWC	Stewart Camp	Mining Camp, Area or Belt		SRAC	Silver Standard - Rocher Deboule Area
SLAC	Stump Lake Area	Mining Camp, Area or Belt		SSAC	Salmo - Sheep Creek Area
SUD	Sudan	Country		STWC	Stewart Camp
SMAC	Swakum Mountain Area	Mining Camp, Area or Belt		SUD	Sudan
SWA	Swaziland	Country		SWA	Swaziland
SWE	Sweden	Country		SWE	Sweden
SWZ	Switzerland	Country		SWRG	Southwest Region
TNZ	Tanzania, United Republic of	Country		SWZ	Switzerland
TBAC	Taseko - Blackdome Area	Mining Camp, Area or Belt		TBAC	Taseko - Blackdome Area
TRGC	Telkwa Range	Mining Camp, Area or Belt		THA	Thailand
TN	Tennessee	USA State		TKAC	Tofino - Kennedy River Area
TXIS	Texada Island	Mining Camp, Area or Belt		TMAC	Tillicum Mountain Area
TX	Texas	USA State		TN	Tennessee
THA	Thailand	Country		TNZ	Tanzania, United Republic of
TMAC	Tillicum Mountain Area	Mining Camp, Area or Belt		TODC	Toodoggone Camp
TKAC	Tofino - Kennedy River Area	Mining Camp, Area or Belt		TOG	Togo
TOG	Togo	Country		TRGC	Telkwa Range
TODC	Toodoggone Camp	Mining Camp, Area or Belt		TUN	Tunisia
TUN	Tunisia	Country		TUR	Turkey
TUR	Turkey	Country		TX	Texas
UGA	Uganda	Country		TXIS	Texada Island
UAE	United Arab Emirates	Country		UAE	United Arab Emirates
UK	United Kingdom	Country		UGA	Uganda
USA	United States of America	Country		UK	United Kingdom
***	Unknown	Unknown Region		URU	Uruguay
URU	Uruguay	Country		USA	United States of America
UT	Utah	USA State		UT	Utah
VANI	Vancouver Island	Area in British Columbia		VA	Virginia
VEN	Venezuela	Country		VANI	Vancouver Island
VT	Vermont	USA State		VEN	Venezuela
VTN	Vietnam	Country		VT	Vermont
VA	Virginia	USA State		VTN	Vietnam
WA	Washington State	USA State		WA	Washington State
WV	West Virginia	USA State		WI	Wisconsin
WI	Wisconsin	USA State		WV	West Virginia
WY	Wyoming	USA State		WY	Wyoming
YNAC	Ymir - Nelson Area	Mining Camp, Area or Belt		YNAC	Ymir - Nelson Area
YUG	Yugoslavia	Country		YT	Yukon
YT	Yukon	Territory in Canada		YUG	Yugoslavia
ZAI	Zaire	Country		ZAI	Zaire
ZAM	Zambia	Country		ZAM	Zambia
ZKAC	Zeballos - Kyuquot Area	Mining Camp, Area or Belt		ZIM	Zimbabwe
ZIM	Zimbabwe	Country		ZKAC	Zeballos - Kyuquot Area

Total   236

A6. Electoral District Code Table: *e42.dbf*

EDST_ID	EDST_NAME
1	Abbotsford-Clayburn
2	Abbotsford-Mount Lehman
3	Alberni-Qualicum
4	Bulkley Valley-Stikine
5	Burnaby-Edmonds
6	Burnaby North
7	Burnaby-Willingdon
8	Burquitlam
9	Cariboo North
10	Cariboo South
11	Chilliwack-Kent
12	Chilliwack-Sumas
13	Columbia River-Revelstoke

14	Comox Valley
15	Coquitlam-Maillardville
16	Cowichan-Ladysmith
17	Delta North
18	Delta South
19	East Kootenay
20	Esquimalt-Metchosin
21	Fort Langley-Aldergrove
22	Kamloops
23	Kamloops-North Thompson
24	Kelowna-Lake Country
25	Kelowna-Mission
26	Langley
27	Malahat-Juan de Fuca
28	Maple Ridge-Mission
29	Maple Ridge-Pitt Meadows
30	Nanaimo
31	Nanaimo-Parksville
32	Nelson-Creston
33	New Westminster
34	North Coast
35	North Island
36	North Vancouver-Lonsdale
37	North Vancouver-Seymour
38	Oak Bay-Gordon Head
39	Okanagan-Vernon
40	Okanagan-Westside
41	Peace River North
42	Peace River South
43	Penticton-Okanagan Valley
44	Port Coquitlam-Burke Mountain
45	Port Moody-Westwood
46	Powell River-Sunshine Coast
47	Prince George-Mount Robson
48	Prince George North
49	Prince George-Omineca
50	Richmond Centre
51	Richmond East
52	Richmond-Steveston
53	Saanich North and the Islands
54	Saanich South
55	Shuswap
56	Skeena
57	Surrey-Cloverdale
58	Surrey-Green Timbers
59	Surrey-Newton
60	Surrey-Panorama Ridge
61	Surrey-Tynehead
62	Surrey-Whalley
63	Surrey-White Rock
64	Vancouver-Burrard
65	Vancouver-Fairview
66	Vancouver-Fraserview
67	Vancouver-Hastings
68	Vancouver-Kensington

69	Vancouver-Kingsway
70	Vancouver-Langara
71	Vancouver-Mount Pleasant
72	Vancouver-Point Grey
73	Vancouver-Quilchena
74	Victoria-Beacon Hill
75	Victoria-Hillside
76	West Kootenay-Boundary
77	West Vancouver-Capilano
78	West Vancouver-Garibaldi
79	Yale-Lillooet

Total = 79

A7. Forest District Code Table: *e43.dbf*

FDST_ID	FDST_NAME
1	Campbell River Forest District
2	Chilliwack Forest District
3	North Coast Forest District
4	North Island - Central Coast Forest District
5	Queen Charlotte Islands Forest District
6	South Island Forest District
7	Squamish Forest District
8	Sunshine Coast Forest District
9	Fort Nelson Forest District
10	Fort St. James Forest District
11	Kalum Forest District
12	Mackenzie Forest District
13	Nadina Forest District
14	Peace Forest District
15	Prince George Forest District
16	Skeena Stikine Forest District
17	Vanderhoof Forest District
18	100 Mile House Forest District
19	Arrow Boundary Forest District
20	Cascades Forest District
21	Central Cariboo Forest District
22	Chilcotin Forest District
23	Columbia Forest District
24	Headwaters Forest District
25	Kamloops Forest District
26	Kootenay Lake Forest District
27	Okanagan Shuswap Forest District
28	Quesnel Forest District
29	Rocky Mountain Forest District

Total = 29

Commodity Codes
MINFILE User's Manual: Appendix B

MINFILE Commodity Codes: *Table e19.dbf*

Commodity (sort)	Code		Code (sort)	Commodity
Agate	AE		AA	Andesite
Aggregate	AT		AB	Asbestos
Aluminum	AL		AD	Andalusite
Alunite	AI		AE	Agate
Amber	AM		AG	Silver
Amethyst	AY		AI	Alunite
Andalusite	AD		AL	Aluminum
Andesite	AA		AM	Amber
Anhydrite	AN		AN	Anhydrite
Antimony	SB		AP	Apatite
Apatite	AP		AR	Argillite
Argillite	AR		AS	Arsenic
Arsenic	AS		AT	Aggregate
Asbestos	AB		AU	Gold
Barite	BA		AY	Amethyst
Bentonite	BN		BA	Barite
Beryl	BY		BE	Beryllium
Beryllium	BE		BI	Bismuth
Bismuth	BI		BM	Bitumen
Bitumen	BM		BN	Bentonite
Building Stone	BS		BS	Building Stone
Cadmium	CD		BY	Beryl
Calcium	CA		CA	Calcium
Celestite	CI		CC	Ceramic Clay
Ceramic Clay	CC		CD	Cadmium
Cerium	CE		CE	Cerium
Cesium	CS		CH	Chrysotile
Chromium	CR		CI	Celestite
Chrysotile	CH		CL	Coal
Clay	CY		CM	Corundum
Coal	CL		CO	Cobalt
Cobalt	CO		CR	Chromium
Copper	CU		CS	Cesium
Corundum	CM		CU	Copper
Diamond	DI		CY	Clay
Diatomite	DE		DE	Diatomite
Dimension Stone	DS		DI	Diamond
Dolomite	DO		DO	Dolomite
Dysprosium	DY		DS	Dimension Stone
Erbium	ER		DY	Dysprosium
Europium	EU		ER	Erbium
Evaporites	EV		ES	Expanding Shale
Expanding Shale	ES		EU	Europium
Feldspar	FD		EV	Evaporites
Fireclay	FC		FC	Fireclay
Flagstone	FS		FD	Feldspar
Fluorite	FL		FE	Iron

Fullers Earth	FR		FL	Fluorite
Gadolinium	GD		FR	Fullers Earth
Gallium	GA		FS	Flagstone
Garnet	GN		GA	Gallium
Gemstones	GS		GD	Gadolinium
Germanium	GE		GE	Germanium
Gold	AU		GN	Garnet
Granite	GR		GR	Granite
Graphite	GT		GS	Gemstones
Gravel	GV		GT	Graphite
Gypsum	GY		GV	Gravel
Hafnium	HF		GY	Gypsum
Hotspring	HS		HF	Hafnium
Hydromagnesite	HM		HG	Mercury
Indium	IN		HM	Hydromagnesite
Iridium	IR		HS	Hotspring
Iron	FE		IN	Indium
Jade/Nephrite	JD		IR	Iridium
Kaolinite	KA		JD	Jade/Nephrite
Kyanite	KY		KA	Kaolinite
Lanthanum	LA		KK	Potassium
Lead	PB		KN	Potassium Nitrate
Limestone	LS		KY	Kyanite
Lithium	LI		LA	Lanthanum
Lutetium	LU		LI	Lithium
Magnesite	MT		LS	Limestone
Magnesium	MG		LU	Lutetium
Magnesium Sulphate	MS		MA	Magnetite
Magnetite	MA		MB	Marble
Manganese	MN		MG	Magnesium
Marble	MB		MI	Mica
Marl	MR		MN	Manganese
Mercury	HG		MO	Molybdenum
Mica	MI		MR	Marl
Mineral/Rock Wool	MW		MS	Magnesium Sulphate
Molybdenum	MO		MT	Magnesite
Neodymium	ND		MW	Mineral/Rock Wool
Nepheline Syenite	NS		NA	Sodium
Nickel	NI		NB	Niobium
Niobium	NB		NC	Sodium Chloride
Ochre	OC		ND	Neodymium
Olivine	OL		NI	Nickel
Opal	OP		NS	Nepheline Syenite
Osmium	OS		OC	Ochre
Palladium	PD		OL	Olivine
Peat	PA		OP	Opal
Perlite	PE		OS	Osmium
Phosphate	PP		PA	Peat
Phosphorus	PH		PB	Lead
Platinum	PT		PD	Palladium
Potash	PO		PE	Perlite
Potassium	KK		PH	Phosphorus
Potassium Nitrate	KN		PL	Pyrophyllite
Pozzolan	PZ		PO	Potash

Commodity Codes

Praseodymium	PR		PP	Phosphate
Pumice	PU		PR	Praseodymium
Pyrochlore	PY		PT	Platinum
Pyrophyllite	PL		PU	Pumice
Quartzite	QZ		PY	Pyrochlore
Radioactive Material	RD		PZ	Pozzolan
Radium	RA		QZ	Quartzite
Radon	RN		RA	Radium
Railroad Ballast	RB		RB	Railroad Ballast
Rare Earths	RS		RD	Radioactive Material
Rhenium	RE		RE	Rhenium
Rhodium	RH		RH	Rhodium
Rhodonite	RO		RM	Rubidium
Rubidium	RM		RN	Radon
Ruby	RY		RO	Rhodonite
Ruthenium	RU		RS	Rare Earths
Samarium	SM		RU	Ruthenium
Sand	SD		RY	Ruby
Sandstone	SV		SB	Antimony
Sapphire	SP		SC	Scandium
Scandium	SC		SD	Sand
Selenium	SE		SE	Selenium
Sericite	SK		SG	Slag
Shale	SH		SH	Shale
Silica	SI		SI	Silica
Sillimanite	SL		SK	Sericite
Silver	AG		SL	Sillimanite
Slag	SG		SM	Samarium
Slate	ST		SN	Tin
Soapstone	SZ		SO	Sodium Carbonate
Sodalite	SX		SP	Sapphire
Sodium	NA		SR	Strontium
Sodium Carbonate	SO		SS	Sodium Sulphate
Sodium Chloride	NC		ST	Slate
Sodium Sulphate	SS		SU	Sulphur
Strontium	SR		SV	Sandstone
Sulphur	SU		SX	Sodalite
Talc	TC		SZ	Soapstone
Tantalum	TA		TA	Tantalum
Tellurium	TE		TB	Terbium
Terbium	TB		TC	Talc
Thallium	TL		TE	Tellurium
Thorium	TH		TH	Thorium
Thulium	TM		TI	Titanium
Tin	SN		TL	Thallium
Titanium	TI		TM	Thulium
Travertine	TR		TR	Travertine
Tremolite	TT		TT	Tremolite
Tungsten	WO		UR	Uranium
Unknown	**		VA	Vanadium
Uranium	UR		VG	Volcanic Glass
Vanadium	VA		VL	Volcanic Ash
Vermiculite	VM		VM	Vermiculite
Volcanic Ash	VL		WL	Wollastonite

Volcanic Glass	VG		WO	Tungsten
Wollastonite	WL		YB	Ytterbium
Ytterbium	YB		YR	Yttrium
Yttrium	YR		ZE	Zeolite
Zeolite	ZE		ZN	Zinc
Zinc	ZN		ZR	Zirconium
Zirconium	ZR		**	Unknown
Total	162		162	Total

Mineral, Rock and Modifier Codes
MINFILE User's Manual: Appendix C

The codes are arranged in alphabetical order.

MINFILE Mineral, Rock and Modifier Codes: *Tables e20b, e25, e26.dbf*

Description	Code	Mineral	Rock	Modifier
Acanthite	ACNT	X		X
Accretionary	ACRN			X
Acid	ACID			X
Acmite	ACMT	X		X
Actinolite	ACNL	X		X
Adularia	ADLR	X		X
Aegirine	AGRN	X		X
Agate	AGTE	X	X	X
Agglomerate	AGLM		X	
Agglomeratic	AGMC			X
Aguilarite	AGLR	X		
Akerite	AKRT	X		X
Akermanite	AKRM	X		X
Aktashite	AKTS	X		
Alaskite	ALSK		X	X
Albandite	ALBD	X		X
Albertite	ALBR	X	X	X
Albite	ALBT	X		X
Albitite	ALBE		X	X
Algal	ALGL			X
Algodonite	ALGD	X		X
Alkali	ALKL			X
Alkalic	AKLC		X	X
Allanite	ALNO	X		X
Allemontite	ALMT	X		
Alluvium	AVUM		X	
Almandine	AMDN	X		
Alnoite	ALNT		X	
Altaite	ALTT	X		X
Altered	ALRD			X
Aluminous	ALMS			X
Alunite	ALUN	X		X
Amblygonite	AMBG	X		X
Amethyst	AMTS	X		X
Amphibole	AMPB	X		X
Amphibolite	AMPH		X	X
Amphibolitic	APBC			X
Amygdaloidal	AMGD			X

Analcime	ALCM	X		
Analcite	ANLC	X		X
Anatase	ANTS	X		X
Andalusite	ADLS	X		X
Andesine	ANDS	X		X
Andesite	ANDT		X	X
Andesitic	ANDC			X
Andorite	ANDR	X		X
Andradite	ADRD	X		X
Anglesite	AGLS	X		X
Anhydrite	ANHY	X	X	X
Ankaramite	ANKM		X	
Ankerite	ANKR	X		X
Ankeritic	ANKT			X
Annabergite	ABRG	X		X
Anorthite	ANRT	X		X
Anorthosite	ANRS		X	
Anthophyllite	ANPL	X		X
Anthracite	ANRC		X	
Antigorite	ANGR	X		X
Antimony	ANMN	X		X
Apatite	APTT	X		X
Aphanitic	ANPC			X
Aphyric	APRC			X
Aplite	APLT		X	X
Aplitic	APLC			X
Apophyllite	APPL	X	X	X
Aragonite	ARGN	X		X
Arenaceous	ARCS			X
Arenite	ARNT		X	
Arfvedsonite	AFVU	X		X
Argentite	ARGT	X		X
Argentopyrite	AGPR	X		
Argillaceous	AGLC			X
Argillite	ARGL		X	
Arkose	ARKS		X	
Arkosic	ARKC			X
Armenite	ARMT	X		
Arsenic	ARSC	X		X
Arsenopyrite	ARPR	X		X
Asbestos	ASBS	X		X
Ash	ASHH		X	X
Augelite	AUGL	X		
Augen	AUGN			X
Augite	AUGT	X		X
Aurichalcite	ACLC	X		X
Aurostibite	ARSB	X		X
Autunite	ATNT	X		X
Awaruite	AWRT	X		X

Axinite	AXNT	X		X
Azurite	AZRT	X		X
Baddeleyite	BDLT	X		X
Banded	BNDD			X
Barite	BRIT	X	X	X
Baritic	BRTC			X
Barytocalcite	BCLC	X		
Basalt	BSLT		X	X
Basaltic	BSLC			X
Basanite	BSNT		X	
Basic	BSIC			X
Bastite	BSTT	X		
Bastnaesite	BSNS	X		X
Bauxite	BUXT	X		X
Bedded	BDED			X
Beforsite	BFRS		X	
Bentonite	BENT	X	X	X
Berthierite	BRTR	X		X
Beryl	BRYL	X		X
Betafite	BTFT	X		X
Beudantite	BDNT	X		
Bindheimite	BNDM	X		X
Biotite	BOIT	X		X
Bismuth	BSMT	X		X
Bismuthinite	BSMN	X		X
Bismutite	BMTT	X		X
Bitumen	BTMN	X	X	X
Bituminous	BMNS			X
Bixbyite	BXBT	X		X
Black	BLCK			X
Block	BOCK			X
Bloedite	BLDT	X		
Boothite	BTHT	X		X
Boracite	BRCT	X		X
Borax	BORX	X	X	X
Bornite	BRNT	X		X
Boulangerite	BLGR	X		X
Boulder	BLDR			X
Bournonite	BRNN	X		X
Brannerite	BRNR	X		X
Braunite	BRUN	X		X
Bravoite	BRVT	X		X
Breccia	BRCC		X	X
Brecciated	BRCD			X
Breithauptite	BRTP	X		X
Breunnerite	BRRT	X		X
Brines	BRMS	X		X
Britholite	BRTL	X		X
Brochantite	BRCN	X		

Bronzite	BRNZ	X		X
Brucite	BRUC	X	X	X
Calaverite	CLVR	X		X
Calc	CALC			X
Calc-silicate	CLSC	X	X	X
Calcarenite	CLCR		X	
Calcareous	CLCS			X
Calciosamarskite	CCMK	X		X
Calcirudite	CALR		X	
Calcite	CLCT	X		X
Camptonite	CMPN		X	
Cancrinite	CNCR	X		X
Carbon	CRBO	X		
Carbonaceous	CRBC			X
Carbonate	CARB	X	X	X
Carbonatite	CRBM		X	
Carbonatized	CARZ			X
Carbonite	CRBN	X		X
Carnallite	CRNL	X		X
Carnotite	CRNT	X		X
Carrollite	CRLT	X		X
Cassiterite	CSTR	X		X
Cataclasite	CCLS		X	
Cataclastic	CCTC			X
Celadonite	CLDN	X		X
Celestite	CLST	X		X
Celsian	CELS	X		
Cerargyrite	CRRG	X		X
Cerussite	CRST	X		X
Cervantite	CRVN	X		X
Chalcanthite	CHLT	X		
Chalcedony	CLCD	X	X	X
Chalcocite	CLCC	X		X
Chalcomenite	CLCM	X		X
Chalcopyrite	CLCP	X		X
Chalcostibite	CLCB	X		X
Chamosite	CMST	X		X
Charnockite	CRCK		X	X
Chert	CHRT		X	X
Cherty	CHTY			X
Chevkinite	CVKN	X		X
China Stone	CNSN		X	
Chloanthite	CLNT	X		X
Chloride	CLRD	X		X
Chlorite	CLRT	X		X
Chloritic	CLRC			X
Chloritoid	CLTD	X		X
Chondrodite	CDRD	X		X
Chromite	CRMT	X		X

Name	Code			
Chromitite	CRTT		X	
Chrysocolla	CRCL	X		X
Chrysolite	CRLI	X		X
Chrysoprase	CPRS	X		
Chrysotile	CRSL	X		X
Cinnabar	CNBR	X		X
Clastic	CSTC		X	X
Clausthalite	CLSL	X		X
Clay	CLAY	X	X	X
Claystone	CLSN		X	
Cleavelandite	CLVD	X		X
Clinochlore	CLCL	X		X
Clinoptilolite	CLTL	X		X
Clinopyroxene	CLPX	X		X
Clinopyroxenite	CLPT		X	
Clinozoisite	CLZS	X		X
Coal	COAL	X	X	X
Coarse Grained	CGRD			X
Cobaltite	CBLT	X		X
Coffinite	CFNT	X		X
Collinsite	CLLT	X		
Collophane	CLPN	X		X
Coloradoite	CLDT	X		X
Columbite	CLMB	X		X
Conglomerate	CGLM		X	X
Conichalcite	CCLC	X		
Copper	CPPR	X		X
Cordierite	CRDR	X		X
Corkite	CRKT	X		
Coronadite	CRND	X		X
Corundum	CRDM	X		X
Corynite	CRYN	X		
Cosalite	CSLT	X		X
Covellite	CVLT	X		X
Crackle	CCKL			X
Crinanite	CRNN		X	
Cristobalite	CTBL	X		X
Crocidolite	CCDL	X		X
Crossite	CRSS	X		
Crushed	CHRD			X
Cryolite	CRYL	X		X
Cryptomelane	CPML	X		X
Crystal	XTAL			X
Cubanite	CBNT	X		X
Cummingtonite	CMNG	X		X
Cuprite	CPRT	X		X
Cyrtolite	CRTL	X		X
Dacite	DCIT		X	X
Dacitic	DCTC			X

Danaite	DNIT	X		X
Danalite	DNLT	X		X
Datolite	DTLT	X		X
Deudantite	DDNT	X		X
Diabase	DIBS		X	X
Diamictite	DMCT		X	
Diamond	DMND	X		X
Diaspore	DSPR	X		X
Diatomaceous	DTMS			X
Diatomite	DITM	X	X	X
Diatreme	DTRM			X
Dickite	DCKT	X		X
Digenite	DGNT	X		X
Dike	DYKE		X	
Diopside	DPSD	X		X
Diorite	DORT		X	X
Dioritic	DORC			X
Djurleite	DJRL	X		X
Dolerite	DLRT		X	
Dolomite	DOLM	X	X	X
Dolomitic	DLMC			X
Domeykite	DMKT	X		X
Dumortierite	DMRR	X		X
Dunite	DUNT		X	
Dunitic	DNTC			X
Dyscrasite	DSCR	X		X
Eclogite	ECLG		X	
Electrum	ELCM	X		X
Ellsworthite	ELSR	X		X
Emery	EMRY	X		X
Empressite	EMPR	X		X
Enargite	ENRG	X		X
Enstatite	ENST	X		X
Epiclastic	EPCL		X	X
Epidote	EPDT	X		X
Epsomite	EPSM	X		X
Equigranular	EQGL			X
Erythrite	ERTR	X		X
Eschynite	ESCN	X		X
Esker Sediment	EKSM		X	
Essexite	ESXT		X	
Euxenite	EXNT	X		X
Evaporite	EVPR	X	X	X
Extrusive	EXTV		X	
Famatinite	FMTN	X		X
Fayalite	FYLT	X		X
Feldspar	FLDP	X		X
Feldspathic	FDPC			X
Feldspathoid	FDPD	X		

Name	Code			
Felsic	FLSC			X
Felsite	FLST		X	X
Fenite	FNIT		X	
Ferberite	FRBR	X		X
Fergusonite	FRGS	X		X
Ferricrete	FRCR		X	
Ferrierite	FRRT	X		
Ferrimolybdite	FMBD	X		X
Ferro	FRRO			X
Ferrodolomite	FDLM	X		
Ferruginous	FRUG			X
Fersmite	FRSM	X		X
Fine Grained	FGRD			X
Fireclay	FRCL	X	X	X
Flow	FLOW		X	X
Fluorapatite	FLAP	X		
Fluorite	FLRT	X		X
Fluorphlogopite	FPGP	X		X
Fluorspar	FLRP	X		X
Fluvial	FLVL			X
Foliated	FLTD			X
Formanite	FRMN	X		X
Forsterite	FRSR	X		X
Fossiliferous	FLFR			X
Fractured	FRCD			X
Fragmental	FRAG			X
Franckeite	FRCK	X		X
Freibergite	FRBG	X		X
Freieslebenite	FRLB	X		X
Friedelite	FRLT	X		X
Freilergite	FRLG			X
Frohbergite	FRBT	X		
Froodite	FRDT	X		X
Fuchsite	FCST	X		X
Gabbro	GBBR		X	X
Gabbroic	GBRC			X
Gadolinite	GDLN	X		X
Gahnite	GHNT	X		
Galena	GLEN	X		X
Gallium	GLLM	X		X
Garnet	GARN	X		X
Garnetiferous	GRFR			X
Garnetite	GART		X	X
Garnierite	GRNR	X		X
Gaspeite	GSPT	X		X
Geikielite	GKLT	X		X
Geocronite	GCRN	X		X
Germanite	GRMN	X		
Gersdorffite	GRDF	X		X

Geyserite	GSRT	X		
Gibbsite	GBST	X		X
Glacial	GLCL			X
Glaciolacustrine	GLLC			X
Glass	GLSS	X	X	X
Glaucodot	GLCD	X		X
Glauconite	GLCN	X		X
Glaucophane	GLCP	X		X
Gmelinite	GMLN	X		
Gneiss	GNSS		X	
Gneissic	GNSC			X
Goethite	GTHT	X		X
Gold	GOLD	X		X
Gorceixite	GRCX	X		
Gossan	GSSN		X	X
Gouge	GOUG		X	
Granite	GRNT		X	X
Granitic	GRNC			X
Granitoid	GRND		X	X
Granodiorite	GRDR		X	X
Granophyre	GRPR		X	
Granulite	GRNU		X	X
Graphite	GRPT	X	X	
Graphitic	GRPC			X
Gravel	GRVL		X	
Greenalite	GRNL	X		X
Greenockite	GRCK	X		X
Greensand	GRSD		X	
Greenschist	GRCS		X	
Greenstone	GRNS		X	X
Greisen	GRSN		X	X
Greywacke	GRWK		X	
Grit	GRIT		X	
Grossularite	GRLR	X		X
Grunerite	GRRT	X		X
Guano	GUNO	X	X	
Gudmundite	GDMD	X		X
Gummite	GMMT	X		X
Gypsite	GPST		X	
Gypsum	GPSM	X	X	X
Halite	HLIT	X	X	X
Harzburgite	HZBG		X	
Hatchettolite	HTCL	X		X
Hausmannite	HSMN	X		X
Heazlewoodite	HZLD	X		X
Hedenbergite	HDBG	X		X
Hedleyite	HDLT	X		
Hematite	HMTT	X		X
Hematitic	HMTC			X

Hemimorphite	HMRP	X		
Hercynite	HRCN	X		X
Hessite	HSST	X		X
Heterolithic	HRLC			X
Heulandite	HLND	X		X
Hollandite	HLDT	X		X
Hornblende	HBLD	X		X
Hornblendite	HRBD		X	X
Hornfels	HRFL		X	X
Hornfelsed	HOFD			X
Howlite	HWLT	X		X
Hubnerite	HBNR	X		X
Humite	HUMT	X		
Hybrid	HBRD			X
Hydrocarbon	HDCB	X		X
Hydromagnesite	HDMG	X	X	X
Hydrozincite	HDZC	X		X
Hypersthene	HPRS	X		X
Idaite	IDIT	X		
Idocrase	IDCR	X		X
Ignimbrite	IGMB		X	X
Ijolite	IJLT		X	
Illite	ILLT	X	X	X
Ilmenite	ILMN	X		X
Ilmenorutile	ILMR	X		
Ilvaite	ILVT	X		
Intermediate	INTR			X
Intraformational	IFML			X
Intrusive	INTV		X	X
Inyoite	INYT	X		X
Iridium	IRDM	X		X
Iridosmine	IDSM	X		X
Iron	IRON			X
Iron Formation	IRFM		X	
Ironstone	IRSN		X	
Isokite	ISKT	X		X
Jacobsite	JCBS	X		X
Jacupirangite	JCPG		X	
Jade	JADE	X	X	X
Jadeite	JDIT	X	X	
Jalpaite	JLPT	X		X
Jamesonite	JMSN	X		X
Jarosite	JRST	X		X
Jasper	JSPR	X	X	X
Jasperoid	JPRD		X	
Jaspilite	JSPL		X	
Jordanite	JRDN	X		X
K-Feldspar	KSPA	X		X
Kainite	KINT	X		X

Kaolin	KOLN	X	X	X
Kaolinite	KLNT	X	X	X
Kasolite	KSLT	X		
Kentallenite	KNLN		X	
Keratophyre	KRPR		X	X
Kermesite	KRMS	X		X
Kersantite	KRSN		X	
Kimberlite	KMBL		X	X
Knebelite	KNBL	X		
Knopite	KNPT	X		
Kobellite	KBLT	X		
Kotelskite	KLSK	X		
Krennerite	KRNR	X		X
Kyanite	KYNT	X		X
Laboradorite	LBRD	X		X
Lahar	LAHR		X	X
Lamproite	LMPT		X	X
Lamprophyre	LMPP		X	X
Lapilli	LPLL			X
Lapillistone	LPLS		X	
Larnite	LRNT	X		X
Latite	LTIT		X	X
Laumontite	LMNT	X		X
Lava	LAVA		X	X
Layered	LYRD			X
Lazulite	LZLT	X		X
Lepidocrocite	LPCC	X		X
Lepidolite	LPDL	X		X
Lepidomelane	LPDM	X		
Leuchtenbergite	LCBG	X		
Leucite	LUCT	X		X
Leucocratic	LCCC			X
Leucopyrite	LCPR	X		X
Leucoxene	LCXN	X		X
Lignite	LGNT		X	
Limestone	LMSN		X	X
Limonite	LMON	X		X
Limy	LIMY			X
Linarite	LNRT	X		X
Linnaeite	LNNT	X		X
Listwanite	LSWN		X	X
Lit-par-lit	LPRL			X
Lithic	LTHC			X
Lithiophilite	LTPL	X		X
Lizardite	LZDT	X		
Lollingite	LLGT	X		X
Lugarite	LGRT		X	
Luxullianite	LXLN	X		X
Lyndochite	LNDC	X		X

Mackinawite	MCKN	X		X
Mafic	MAFC			X
Maghemite	MGHM	X		X
Magnesian	MGSN			X
Magnesite	MGNS	X	X	X
Magnesitic	MGSC			X
Magnetite	MGNT	X	X	X
Malachite	MLCT	X		X
Maldonite	MLDN	X		
Malignite	MLGN		X	
Manganiferous	MGFR			X
Manganite	MNGN	X		X
Marble	MRBL	X	X	X
Marcasite	MRCS	X		X
Mariposite	MRPS	X		X
Marl	MARL		X	
Marmatite	MRMT	X		
Martite	MRTT	X		X
Massive	MSSV			X
Matildite	MTLD	X		X
Maucherite	MCRT	X		X
Mcgillite	MCGL	X		
Medium Grained	MGRD			X
Megacrystic	MGCR			X
Melanocratic	MLCR			X
Melanterite	MLNR	X		X
Melilite	MLLT	X		X
Meneghinite	MNGT	X		X
Mercury	MRCR	X		X
Merenskyite	MRSK	X		
Merrschaum	MRCM	X		X
Mertietite	MERI	X		
Merwinite	MRNT	X		X
Mesocratic	MSCR			X
Meta	META			X
Metabasite	MBST		X	
Metacinnabar	MCBR	X		X
Metamorphic	MMPC			X
Metasedimentary	MSDM		X	
Metastibnite	MSBN	X		X
Metatorbernite	MTRB	X		X
Metazeunerite	MZNR	X		
Miargyrite	MRGR	X		X
Mica	MICA	X		X
Micaceous	MCCS			X
Michenerite	MCNR	X		X
Microcline	MCCL	X		X
Microdiorite	MDRT		X	X
Migmatite	MGMT		X	

Migmatitic	MGMC			X
Millerite	MLRT	X		X
Mimetite	MMIT	X		
Minette	MNTT		X	X
Minnesotaite	MNST	X		X
Mirabilite	MRBT	X		
Molybdenite	MLBD	X		X
Molybdite	MBDT	X		X
Monazite	MNZT	X		X
Monchiquite	MNCQ		X	
Monticellite	MNCL	X		X
Montmorillonite	MMRL	X		X
Monzodiorite	MZDR		X	X
Monzonite	MNZN		X	X
Monzonitic	MNZC			X
Morenosite	MRNS	X		X
Mudstone	MDSN		X	X
Mugearite	MGRT		X	
Muscovite	MSCV	X		X
Mylonite	MLNT		X	
Mylonitic	MLNC			X
Nacrite	NCRT	X		
Nagyagite	NGGT	X		X
Natroalunite	NTRL	X		
Natrolite	NTLT	X		
Natron	NTRN	X		
Naumannite	NMNT	X		X
Neodigenite	NDGN	X		X
Neotocite	NTCT	X		
Nepheline	NPLN	X		X
Nephelinite	NPLT		X	
Nephrite	NPRT	X		X
Neyite	NYTE	X		
Niccolite	NCLT	X		X
Ningyoite	NGYT	X		X
Niocalite	NOCL	X		X
Nitre	NITR	X		
Nodular	NDLR			X
Nontronite	NNRN	X		
Nordmarkite	NDMK		X	
Norite	NORT		X	X
Novaculite	NVCL		X	
Obsidian	OBSD	X	X	
Ochre	OCHR	X		X
Odinite	ODNT		X	
Oligoclase	OLGC	X		X
Oligomictic	OGMC			X
Olivine	OLVN	X		X
Oolitic	OLTC			X

Mineral/Rock Codes

Opal	OPAL	X		X
Orbicular	OBCL			X
Orpiment	ORPM	X		X
Ortho	ORTH			X
Orthoclase	ORCL	X		X
Orthopyroxene	ORPX	X		X
Orthopyroxenite	OTPR		X	
Osmiridium	OMDM	X		
Ouachitite	OCTT		X	
Owyheeite	OYHT	X		
Palladium	PLLM	X		
Palygorskite	PLGK	X		
Para	PARA			X
Paragonite	PRGN	X		X
Parahopeite	PRPT	X		X
Pararammelsbergite	PMBG	X		X
Parisite	PRIS	X		
Parkerite	PRKR	X		X
Pearceite	PRCT	X		X
Peat	PEAT		X	
Pebble	PBBL			X
Pegmatite	PGMT		X	X
Pegmatitic	PGMC			X
Pelite	PLIT		X	
Pelitic	PLTC			X
Pelletal	PLTL			X
Penninite	PNNT	X		X
Pentlandite	PNLD	X		X
Periclase	PRCL	X		X
Peridotite	PRDT		X	X
Perknite	PRKN		X	
Perlite	PERL	X	X	X
Perovskite	PRVK	X		X
Perthite	PRTT	X		X
Petzite	PTZT	X		X
Phenacite	PNCT		X	
Phengite	PNGT		X	
Phlogopite	PLGP	X		X
Phonolite	PNLT		X	X
Phosphate	PSPT	X	X	X
Phosphatic	PSPC			X
Phosphorite	PSRT	X	X	X
Phosphuranylite	PHUR	X		
Phyllite	PLLT		X	
Phyllitic	PLLC			X
Phyllonite	PLNT		X	
Phyric	PHRC		X	X
Picrite	PCRT		X	
Picritic	PCRC			X

Picrolite	PCRL	X		X
Pillow	PLLW			X
Pinite	PINT	X		X
Pipe	PIPE		X	
Pitchblende	PCBD	X	X	X
Pitchstone	PCSN		X	
Plagioclase	PLGC	X		X
Platinum	PLNM	X		X
Pollucite	PLCT	X		X
Polybasite	PLBS	X		X
Polycrase	PLCR	X		X
Polydymite	PLDM	X		X
Polymictic	PMCC			X
Porcellanite	PORC		X	X
Porphyritic	PPRC			X
Porphyroblastic	PPBL			X
Porphyry	PRPR		X	X
Powellite	PWLT	X		X
Prehnite	PRNT	X		X
Priorite	PRRT	X		X
Prosopite	PRSP	X		
Proustite	PRST	X		X
Psammite	PSMT		X	
Psammitic	PSMC			X
Psilomelane	PLML	X		X
Pulaskite	PLSK		X	X
Pumice	PUMC		X	X
Pumpellyite	PMPL	X		X
Pyrargyrite	PRRG	X		X
Pyrite	PYRT	X		X
Pyritic	PYRC			X
Pyrobitumen	PYBM	X		
Pyrochlore	PCLR	X		X
Pyroclastic	PCLC		X	X
Pyrolusite	PRLS	X		X
Pyromorphite	PRMP	X		X
Pyrope	PYRP	X		X
Pyrophanite	PRPN	X		X
Pyrophyllite	PRPL	X	X	X
Pyroxene	PRXE	X		X
Pyroxenite	PRXN		X	X
Pyroxenitic	PRXC			X
Pyrrhotite	PYTT	X		X
Quartz	QRTZ	X	X	X
Quartzite	QRZT		X	
Quartzitic/Quartzose	QRZS			X
Quartzofeldspathic	QZFP			X
Rammelsbergite	RMBG	X		X
Rankinite	RNKN	X		X

Name	Code			
Rapakivi	RPKV			X
Rauhaugite	RHGT		X	
Realgar	RLGR	X		X
Reworked	RWRK			X
Rhodochrosite	RDCR	X		X
Rhodonite	RODN	X		X
Rhyodacite	RDCT		X	X
Rhyodacitic	RDCC			X
Rhyolite	RYLT		X	X
Rhyolitic	RYLC			X
Rickardite	RCKD	X		X
Riebeckite	RBCK	X		X
Rock	ROCK		X	
Rodingite	RDNG		X	X
Rozenite	RZNT	X		X
Ruby Silver	RSVR	X		X
Rudite	RUDT		X	
Rutile	RUTL	X		X
Sabugalite	SBGL	X		X
Safflorite	SFLR	X		X
Sahlite	SHLT	X		X
Saleeite	SLET	X		X
Salite	SLIT	X		
Salts	SLTS	X	X	X
Samarskite	SMRK	X		X
Sand	SAND		X	
Sandstone	SNDS		X	
Sandy	SNDY			X
Sanidine	SNDN	X		X
Sapphirine	SPRN	X		X
Sapropel	SPPL		X	
Saussurite	SSRT	X		X
Scapolite	SCPL	X		X
Scawtite	SCTT	X		X
Schapbachite	SCBC	X		X
Scheelite	SCLT	X		X
Schist	SCST		X	
Schistose	SCTS			X
Schorlomite	SCLM	X		
Schultenite	SCLN	X		
Scoria	SCOR		X	X
Scorodite	SCRD	X		X
Scorzalite	SCRZ	X		
Sediment/Sedimentary	SDMN		X	X
Selenide	SLND	X		X
Selenite	SLNT	X		X
Selenitic	SLNC			X
Semi	SEMI			X
Semseyite	SMST	X		X

Senarmontite	SNRM	X		X
Sepiolite	SPOL	X		
Sericite	SRCT	X		X
Sericitic	SRCC			X
Serpentine	SRPN	X		X
Serpentinite	SERP	X	X	
Serpentinized	SERZ			X
Seybertite	SBRT	X		X
Shale	SHLE	X	X	X
Shaly	SHLY			X
Sharpstone	SHRP		X	X
Shonkinite	SNKN		X	
Siderite	SDRT	X	X	X
Siegenite	SGNT	X		X
Silica	SILC	X	X	X
Silicate	SLCT	X		X
Siliceous	SLCS			X
Sill	SILL		X	
Sillimanite	SLMN	X		X
Silt	SILT		X	
Siltstone	SLSN		X	
Silty	SLTY			X
Silver	SLVR	X		X
Sinter	SNTR		X	
Skarn	SKRN		X	X
Skutterudite	SKRD	X		X
Slate	SLTE		X	
Slaty	SLAT			X
Smaltite	SMLT	X		X
Smectite	SMCT	X		
Smithsonite	SMSN	X		X
Soapstone	SPSN		X	
Sodalite	SDLT	X		X
Sodic	SODC			X
Soil	SOIL		X	
Sovite	SOVI		X	
Specularite	SPCL	X		X
Spencerite	SPCR	X		
Sperrylite	SPRL	X		X
Spessartine	SPSR	X		X
Spessartite	SPST		X	
Sphalerite	SPLR	X		X
Sphene	SPHN	X		X
Spilite	SPLT		X	
Spinel	SPNL	X		X
Spodumene	SPDM	X		X
Spotted	SPTD			X
Spurrite	SPRT	X		X
Stalactite	STLC		X	X

Stalagmite	SLGM		X	X
Stannite	STNT	X		X
Staurolite	STRL	X		X
Steatite	STTT		X	
Stephanite	STPN	X		X
Sternbergite	SRBG	X		X
Stibiconite	SBCN	X		X
Stibnite	STBN	X		X
Stilbite	STLB	X		
Stilpnomelane	SLPM	X		X
Stolzite	STLZ	X		
Stromatolitic	SMLC			X
Stromeyerite	SRMR	X		X
Strontianite	SRNN	X		X
Sub	SUBB			X
Subfeldspathic	SBFP		X	
Sulphantimonide	SPMD	X		X
Sulphate	SLPT	X		X
Sulphide	SLPD	X		
Sulphidic	SPDC			X
Sulphite	SLPH	X		X
Sulphur	SLPR	X	X	X
Sulvanite	SULV	X		
Svanbergite	SVAN	X		
Syenite	SYNT		X	X
Syenitic	SYEN			X
Syeno	SYNO			X
Sylvanite	SLVN	X		X
Sylvite	SLVT	X		X
Synchysite	SNCS	X		X
Syngenite	SNGT	X		
Tachylyte	TCYL	X	X	
Tailings	TLGS		X	
Talc	TALC	X	X	X
Talcose	TLCS			X
Talus	TLUS		X	
Tantalite	TNTL	X		X
Tapiolite	TPLT	X		X
Tectonic	TCNC			X
Telluride	TLRD	X		X
Tellurobismuthite	TLBM	X		X
Telluropalladinite	TLPD	X		
Temagamite	TMGM	X		
Temiskamite	TMKM	X		X
Tennantite	TNNT	X		X
Tenorite	TNRT	X		X
Tephra	TPHR		X	
Tephrite	TPRT	X	X	X
Tertiary	TRTR			X

Teschenite	TSCN		X	
Tetradymite	TRDM	X		X
Tetrahedrite	TRDR	X		X
Theralite	TERL		X	
Tholeiite	THLT		X	
Tholeiitic	TLTC			X
Thomsonite	TMSN	X		X
Thorianite	TRNT	X		X
Thorite	THRT	X		X
Thorogummite	TRGM	X		X
Thucholite	TCLT	X		X
Thuringite	TRNG	X		
Tiemannite	TMNT	X		X
Till	TILL		X	
Tilleyite	TLYT	X		X
Tillite	TLLT		X	
Titanite	TTNT	X		X
Tonalite	TNLT	X	X	X
Topaz	TOPZ	X		X
Torbernite	TRBN	X		X
Tourmaline	TRML	X		X
Tourmalinite	TMLN		X	
Tourmalite	TRMT		X	X
Trachyandesite	TCAN		X	X
Trachybasalt	TCBL		X	
Trachydacite	TRCC		X	X
Trachyte	TRCT		X	X
Trachytic	TRTC			X
Transported	TRPR			X
Travertine	TRVR		X	
Tremolite	TMLT	X		X
Tridymite	TDYM	X		
Troctolite	TRCL		X	
Troilite	TRLT	X		X
Trondhjemite	TDJM		X	
Tufa	TUFA		X	
Tuff	TUFF		X	X
Tuffaceous	TUFC			X
Tuffite	TUFT		X	
Turbidite	TRBD		X	X
Turgite	TRGT	X	X	
Twinnite	TWNT	X		
Ulexite	ULXT	X		X
Ullmannite	ULMN	X		X
Ultramafic	UMFC		X	X
Ulvospinel	ULVP	X		X
Unconsolidated	UCDD			X
Undifferentiated	UNDF			X
Unknown	****	X	X	X

Name	Code			
Uralite	URLT	X		
Uraninite	URNN	X		X
Uranophane	URNP	X		X
Uranothorite	URNR	X		X
Uranotile	URNL	X		X
Urtite	URTT		X	
Valentinite	VLNN	X		X
Valleriite	VLRT	X		X
Vanadinite	VNDN	X		X
Vandendriesscheite	VDRS	X		
Vein	VEIN		X	
Vermiculite	VMCL	X		X
Vesicular	VSCL			X
Vesuvianite	VSVN	X		X
Violarite	VOLR	X		X
Vitric	VTRC			X
Vitrinite	VTRN		X	
Vogesite	VGST		X	
Volborthite	VLBR	X		
Volcanic	VOLC		X	X
Volcanic Glass	VLGL	X	X	
Volcaniclastic	VLCC		X	X
Vuggy	VUGG			X
Wacke	WCKE		X	
Wad	WADD	X		X
Wairauite	WRUT	X		X
Wehrlite	WRLT	X	X	
Welded	WLDD			X
Willyamite	WLMT	X		X
Wilsonite	WLSN	X		X
Witherite	WTRT	X		X
Wittichenite	WTCN	X		X
Wolframite	WLFM	X		X
Wollastonite	WLST	X		X
Woodhouseite	WDST	X		X
Wulfenite	WLFN	X		
Wurtzite	WRTZ	X		X
Xenotime	XNTM	X		
Yukonite	YKNT	X		X
Zaratite	ZRTT	X		
Zeolite	ZOLT	X	X	X
Zeunerite	ZNRT	X		
Zincite	ZNCT	X		X
Zinkenite	ZNKN	X		X
Zircon	ZRCN	X		X
Zoisite	ZOST	X		X
Zunyite	ZNYT	X		
Totals		*918*	*576*	*248*

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Stratigraphic Age Codes
MINFILE User's Manual: Appendix D

Stratigraphic Age Codes: *(Table e24.dbf)*

ERA	PERIOD	EPOCH	CODE
1 **Cenozoic**	0	0	100
	1 Quaternary	0	110
		1 Recent	111
		2 Pleistocene	112
		9 Pliocene-Pleistocene	119
	2 Tertiary	0	120
		1 Pliocene	121
		2 Miocene	122
		3 Oligocene	123
		4 Eocene	124
		5 Paleocene	125
		9 Cretaceous-Tertiary	129
	3 Mesozoic-Cenozoic		199
2 **Mesozoic**	0		200
	1 Cretaceous	0	210
		1 Upper	211
		4 Middle	214
		7 Lower	217
		9 Jurassic-Cretaceous	219
	2 Jurassic	0	220
		1 Upper	221
		4 Middle	224
		7 Lower	227
		9 Triassic-Jurassic	229
	3 Triassic	0	230
		1 Upper	231
		4 Middle	234
		7 Lower	237
		9 Permian-Triassic	239
	Paleozoic-Mesozoic		299
3 **Paleozoic**	0	0	300
	Upper Paleozoic		301
	1 Permian	0	310
		1 Upper	311
		4 Middle	314
		7 Lower	317
		9 Pennsylvan.-Permian	319
	2 Pennsylvanian	0	320

			1	Upper	321
			4	Middle	324
			7	Lower	327
			9	Carboniferous	329
	3	Mississippian	0		330
			1	Upper	331
			4	Middle	334
			7	Lower	337
			9	Devonian-Mississipp.	339
	4	Devonian	0		340
			1	Upper	341
			4	Middle	344
			7	Lower	347
			9	Silurian-Devonian	349
	5	Silurian	0		350
			1	Upper	351
			4	Middle	354
			7	Lower	357
			9	Ordovician-Silurian	359
	6	Ordovician	0		360
			1	Upper	361
			4	Middle	364
			7	Lower	367
			9	Cambrian-Ordovician	369
	7	Cambrian	0		370
			1	Upper	371
			4	Middle	374
			7	Lower	377
			9	Proterozoic-Cambrian	379
		Proterozoic-Paleoz.			399
4 Proterozoic	0		0		400
	1	Upper	0		410
	2	Hadrynian	0		420
	4	Middle	0		440
	5	Helikian	0		450
	7	Lower	0		470
	8	Aphebian	0		480
5 Archean	0		0		500
	1	Upper	0		510
	4	Middle	0		540
	7	Lower	0		570
Unknown					***
Total					*80*

Deposit Types/Mineral Deposit Profiles
MINFILE User's Manual: Appendix E

Code	Description	Synonym	USGS	BC Example
A	**ORGANIC**		- -	
A01	Peat		- -	Fraser Delta, North Coast
A02	Lignite	"Brown coal"	- -	Skonun Point (Graham Island)
A03	Sub-bituminous coal	Thermal coal, Black lignite	- -	Hat Creek, Princeton
A04	Bituminous coal	Coking coal, Thermal coal	- -	Quintette, Bullmoose, Greenhills, Fording
A05	Anthracite	Stone coal	- -	Mt Klappan
B	**RESIDUAL/SURFICIAL**		**- -**	
B01	Laterite Fe	Gossan Fe	- -	
B02	Laterite Ni		38a	
B03	Laterite-Saprolite Au	Eluvial placers	38g	
B04	Bauxite Al	Lateritic bauxite	38b	Florence (Sooke)
B05	Residual kaolin	Primary kaolin	38h*	Lang Bay, Sumas Mountain
B06	Fireclay	Refractory shale, Claystone, Clay	38i*	Sumas Mountain Quinsam
B07	Bog Fe, Mn, U, Cu, Au		- -	Whipsaw Creek, Limonite Creek Iron King
B08	Surficial U	"Calcrete U"	- -	Prairie Flats
B09	Karst-hosted Fe, Al, Pb-Zn		- -	Villalta (Fe)
B10	Gossan Au-Ag	Residual Au; Precious metal gossans	- -	Villalta
B11	Marl		- -	Cheam Lake (Chiliwack)
B12	Sand and Gravel	Aggregate, granular deposits, fluvial and glaciofluvial sediments, ice-contact deposits, outwash, alluvial sand and gravel, beach sand and gravel	- -	Colwood Delta, Coquitlam Valley, Sechelt, Stuart River esker complex, small deposits almost everywhere
C	**PLACER**		- -	
C01	Surficial placers	Placer Au-PGE-Sn- diamond-mag-gar-gems	39a to e	Fraser River, Quesnel River, Graham Island
C02	Buried-channel placers	Paleochannel placers	39a to e	Williams Creek Otter Creek, Bullion mine
C03	Marine placers	Off-shore heavy mineral sediments	39f*?	Middlebank (off north end of Vancouver Island)
C04	Paleoplacer U-Au-PGE-Sn- Ti-diam-mag-gar-zir	Quartz pebble conglomerate Au-U	29a	Mulvehill
D	**CONTINENTAL SEDIMENTS AND VOLCANICS**		**- -**	

[D01]	Open-system zeolites		25oa	Princeton Basin, Cache Creek area
[D02]	Closed-basin zeolites		25ob	
[D03]	Volcanic redbed Cu	Basaltic Cu	23	Sustut Copper, Shamrock, NH
D04	Basal U		- -	Blizzard, Tyee
D05	Sandstone U	Roll front U, Tabular U	30c	
D06	Volcanic-hosted U	"Epithermal" U, Volcanogenic U	25f	Rexspar, Bullion (Birch Island)
[D07]	Iron oxide breccias & veins ±P±Cu±Au±Ag ±U	Olympic Dam type, Kiruna type	29b,25i	Iron Range
E	**SEDIMENT-HOSTED**		**- -**	
E01	Almaden Hg	Carbonate-hosted Au-Ag	27b	
[E02]	Carbonate-hosted disseminated Au-Ag	Kipushi Cu-Pb-Zn	32c	
[E03]	Carbonate-hosted disseminated Au-Ag	Carlin-type Au, Sediment-hosted micron Au	26a,19c	Golden Bear ?
[E04]	Sediment-hosted Cu	Sediment-hosted stratiform Cu	30b	Roo, Commerce, Chal 4
[E05]	Sandstone Pb		30a	
[E06]	Bentonite	Volcanic clay/ Soap clay	28e?*	Parton River, Princeton, Quilchena
[E07]	Sedimentary kaolin	"Secondary" kaolin	31k*	Sumas Mountain Quinsam
[E08]	Carbonate-hosted talc	Dolomite-hosted talc	18?i*	Red Mountain, Silver Dollar
[E09]	Sparry magnesite	Veitsch-type, Carbonate-hosted magnesite	18i*	Mt. Brussilof, Driftwood Creek
E10	Carbonate-hosted barite	Mississippi Valley type-barite	- -	Muncho Lake
E11	Carbonate-hosted fluorspar	Mississippi Valley type-fluorite	32d*	Liard Fluorite
E12	Mississippi Valley type Pb-Zn	Carbonate-hosted Pb-Zn, Appalachian Zn	32a/32b	Robb Lake, Monarch
[E13]	Irish-type carbonate-hosted Zn-Pb	Kootenay Arc-type Zn-Pb, Remac-type	- -	Reeves MacDonald, HB, Jersey, Duncan
[E14]	Sedimentary exhalative Zn-Pb-Ag	Sedex, Sediment-hosted massive sulphide	31a	Sullivan, Cirque, Driftpile
[E15]	Blackbird sediment hosted Cu-Co	Sediment-hosted Cu-Co massive sulphide	24d	
[E16]	Shale-hosted Ni-Zn-Mo-PGE	Sediment-hosted Ni	- -	
[E17]	Sediment-hosted barite	Bedded barite	31b	Kwadacha
F	**CHEMICAL SEDIMENT**		**- -**	
[F01]	Sedimentary Mn		34b	
F02	Bedded gypsum	Marine evaporite gypsum	35ae	Lussier River, Windermere
F03	Gypsum-hosted sulphur	Frasch sulphur	- -	Trutch area
F04	Bedded celestite		35aa*	Kitsault Lake
F05	Palygorskite	Attapulgite	34e*	

F06	Lacustrine diatomite	Diatomaceous earth, Kieselguhr	31s	Crownite Formation (Quesnel)
F07	Upwelling-type phosphate		34c	Fernie synclinorium
F08	Warm current-type phosphate		34d	
F09	Playa and Alkaline Lake Evaporites	Hydromagnesite, Na carbonate lake brines	35ba, bm(T)	Milk River
F10	Lake Superior & Rapitan types iron-formation		34a	
F11	Ironstone	Minette ores	34f	Peace River region
G	**MARINE VOLCANIC ASSOCIATION**		- -	
G01	Algoma-type iron-formation	Taconite, Banded iron-formation	28b	Falcon, Lady A
G02	Volcanogenic Mn		24c	
G03	Volcanogenic anhydrite/gypsum		- -	Britannia, Falkland
G04	Besshi massive sulphide Cu-Zn	Kieslager	24b	Goldstream, Windy Craggy, Standard, True Blue
G05	Cyprus massive sulphide Cu (Zn)		24a	Anyox camp, Chu Chua, Lang Creek?
G06	Noranda/Kuroko massive sulphide Cu-Pb-Zn		28a	Britannia, Kutcho Creek, Myra Falls
G07	Subaqueous hot spring Ag-Au		- -	Eskay Creek
H	**EPITHERMAL**		- -	
H01	Travertine	Tufa	35d*	Clinton, Slocan, Deep River
H02	Hot spring Hg		27a	Ucluelet
H03	Hot spring Au-Ag		25a	Cinola, Clisbako, Wolf?, Trout?
H04	Epithermal Au,Ag, Cu: high sulphidation	Acid-sulphate, qtz-alunite Au, Nansatsu-type	25d	Westpine, Taylor-Windfall, Mt. McIntosh
H05	Epithermal Au-Ag: low sulphidation	Adularia-sericite epithermal	25c	Lawyers, Blackdome, Silbak Premier
H06	Epithermal Mn		25g	
H07	Sn-Ag veins	Polymetallic Sn veins	25h,20b	D Zone and Lang Creek (Cassiar)
H08	Alkalic intrusion-associated Au	Alkalic intrusion-related Au, Au-Ag-Te veins	22b	Flathead, Howell, Howe
H09	Hydrothermal alteration clays-Al-Si	Kaolin, Alunite, Siliceous cap, Pyrophyllite	25lb*	Monteith Bay, Pemberton Hills
I	**VEIN, BRECCIA AND STOCKWORK**		- -	
I01	Au-quartz veins	Mesothermal, Motherlode, saddle reefs	36a	Bralorne, Erickson, Polaris-Taku
I02	Intrusion-related Au pyrrhotite veins	Subvolcanic shear-hosted gold	- -	Scottie, Snip, Johnny Mountain, Iron Colt
I03	Turbidite-hosted Au veins	Meguma-type	36a	Frasergold, Reno, Queen, Island Mountain
I04	Iron formation-hosted Au	Iron formation-hosted gold	36b	

[I05](#)	Polymetallic veins Ag-Pb-Zn±Au	Felsic intrusion-associated Ag-Pb-Zn veins	22c,25b	Silver Queen, Beaverdell, Silvana, Lucky Jim
[I06](#)	Cu±Ag quartz veins	Churchill-type vein Cu	?	Davis-Keays, Churchill Copper, Bull River
I07	Silica veins		- -	Granby Point
[I08](#)	Silica-Hg carbonate		27c	Pinchi, Bralorne Takla, Silverquick
[I09](#)	Stibnite veins and disseminations	Simple and disseminated Sb deposits	27d,27e	Minto, Congress, Snowbird
[I10](#)	Vein barite		IM27e	Parson, Brisco, Fireside
[I11](#)	Barite-fluorite veins		26c*	Rock Candy, Eaglet
I12	W veins	Quartz-wolframite veins	15a	
I13	Sn veins and greisens		15b,15c	Duncan Lake
[I14](#)	Five-element veins Ni-Co-As-Ag±(Bi, U)	Ni-Co-native Ag veins, Cobalt-type veins	- -	
[I15](#)	"Classical" U veins	Pitchblende veins, Vein uranium	- -	Purple Rose, Fisher, Dixie
[I16](#)	Unconformity-associated U	Unconformity-veins, Unconformity U	37a	
[I17](#)	Cryptocrystalline magnesite veins	Bone magnesite, Kraubath-type magnesite	- -	Sunny, Pinchi Lake
J	**MANTO**		**- -**	
[J01](#)	Polymetallic manto Ag-Pb-Zn	Polymetallic replacement deposits	19a	Bluebell, Midway
[J02](#)	Manto and stockwork Sn	"Replacement" Sn, Renison-type	14c	
J03	Mn veins and replacements	covered by I05 and J01	19b	
J04	Sulphide manto Au	Au-Ag sulphide mantos	- -	Mosquito Creek , Island Mountain
K	**SKARN**		**- -**	
[K01](#)	Cu skarn		18a,b	Craigmont, Phoenix
[K02](#)	Pb-Zn skarn		18c	Piedmont, Contact
[K03](#)	Fe skarn		18d	Tasu, Jessie, Merry Widow, HPH
[K04](#)	Au skarn		18f*	Nickel Plate
[K05](#)	W skarn		14a	Emerald Tungsten, Dimac
[K06](#)	Sn skarn		14b	Daybreak
[K07](#)	Mo skarn		- -	Coxey, Novelty
[K08](#)	Garnet skarn		- -	Crystal Peak
[K09](#)	Wollastonite skarn		18g	Mineral Hill, Rossland
L	**PORPHYRY**		**- -**	
[L01](#)	Subvolcanic Cu-Ag-Au (As-Sb)	Enargite Au, Transitional Au-Ag	22a/25e	Equity Silver, Thorn
L02	Porphyry-related Au	Granitoid Au, Porphyry Au	20d	Snowfields
[L03](#)	Alkalic porphyry Cu-Au	Diorite porphyry copper	- -	Afton, Copper Mountain, Galore Creek
[L04](#)	Porphyry Cu ± Mo ± Au	Calcalkaline porphyry	17,20, 21a1	Highland Valley, Gibraltar

L05	Porphyry Mo (Low F- type)	Calcalkaline Mo stockwork	21b	Endako, Kitsault, Glacier Gulch
L06	Porphyry Sn	"Subvolcanic tin"	20a	
L07	Porphyry W	Stockwork W-Mo	21c*	Boya
L08	Porphyry Mo (Climax-type)	Granite molybdenite	16	
M	**ULTRAMAFIC/MAFIC ASSOCIATION**		- -	
M01	Flood Basalt-Associated Ni-Cu	Basaltic subvolcanic Cu-Ni-PGE	5a/5b	
M02	Tholeiitic intrusion-hosted Ni-Cu	Gabbroid-associated Ni-Cu	7a	Giant Mascot, Nickel Mountain
M03	Podiform chromite		8a/8b	Castle Mountain, Scottie Creek
M04	Magmatic Fe-Ti±V oxide deposits	Mafic intrusion-hosted Ti-Fe deposits	7b	Lodestone Mountain?, Tanglewood Hill?
M05	Alaskan-type Pt±Os±Rh±Ir	Zoned ultramafic, Uralian-type	9	Tulameen Complex
M06	Ultramafic-hosted asbestos	Serpentinite-hosted asbestos	8d	Cassiar, Kutcho
M07	Ultramafic-hosted talc-magnesite		8f*	
M08	Vermiculite deposits		- -	Fort Fraser area
N	**CARBONATITES, KIMBERLITES & LAMPROITES**		- -	
N01	Carbonatite-hosted deposits		10	Aley, Mount Grace tuff
N02	Kimberlite-hosted diamonds	Diamond pipes	12	Cross
N03	Lamproite-hosted diamonds		12	
O	**PEGMATITE**		- -	
O01	Rare element pegmatite - LCT family	Zoned pegmatite (Lithium-Cesium-Tantalum)	13a*,b*	
O02	Rare element pegmatite - NYF family	Niobium-Yttrium-Fluorine pegmatite	- -	
O03	Muscovite pegmatite	Mica-bearing pegmatite	13f*	
O04	Feldspar-quartz pegmatite	Barren pegmatite	IM13g*, e*	
P	**METAMORPHIC-HOSTED**		- -	
P01	Andalusite hornfels		- -	Leech River
P02	Kyanite-sillimanite schists		- -	
P03	Microcrystalline graphite	"Amorphous" graphite	18k	
P04	Crystalline flake graphite		37f	AA
P05	Vein graphite	"Lump and chip" graphite	37g	
P06	Corundum in aluminous metasediments		- -	
Q	**GEMS AND SEMI-PRECIOUS STONES (diamonds under N)**		- -	
Q01	Jade		- -	Cry Lake, Ogden Mountain
Q02	Rhodonite		- -	Hill 60, Arthur Point, Cassiar
Q03	Agate		- -	
Q04	Amethyst		- -	

Code	Name	Description		Examples
Q05	Jasper		- -	
Q06	Columbia-type emerald		31c	
Q07	Schist-hosted emerald	Exometamorphic emerald deposit	- -	
Q08	Sediment-hosted opal	Australian-type opal	- -	
Q09	Gem corundum in contact zones		- -	
Q10	Gem corundum hosted by alkalic rocks		- -	
Q11	Volcanic-hosted opal		- -	
R	**INDUSTRIAL ROCKS**		**- -**	
R01	Cement shale		- -	Dunsmuir shale, Sumas Mountain
R02	Expanding shale		- -	Nanaimo shale, Saturna Island
R03	Dimension stone - granite	Commercial term "granite" for dimension stone includes all fine, medium and coarse-grained, igneous rocks and some metamorphic rocks	- -	Kelly Island, Fox Island, Nelson Island, Squamish, Ashlu River, Elaho River, Skagit Valley, East Anderson River, Beaverdell, Okanagan Sunset, Pacific Pearl, Nelson
R04	Dimension stone - marble		- -	Marblehead, Anderson Bay (Texada Island)
R05	Dimension stone - andesite		- -	Haddington Island
R06	Dimension stone - sandstone		30d*	Saturna Island, Newcastle Island
R07	Silica sandstone	High-silica quartzite	30e*	Moberley, Nicholson
R08	Flagstone		- -	Salmo, Revelstoke
R09	Limestone		- -	Texada Island, Quatsino Belt
R10	Dolomite		- -	Crawford Bay, Rock Creek
R11	Volcanic ash/Cinder and pumice	Volcanic scoria, volcanic ejecta, agglomerate, pyroclastics, lapilli, tuff	- -	Mt. Meager, Salal Creek, Bridge River ash, Nazco, Wells Grey Park, Buse Lake
R12	Volcanic glass - perlite	Onion skin rhyolitic glass, pitchstone, obsidian	IM25ka*	Frenier, Francois Lake. Uncha Lake
R13	Nepheline syenite		- -	Trident Mountain
R14	Alaskite		- -	
R15	Crushed rock	Road metal, Riprap, Railroad ballast	- -	McAbbee, Gissome
S	**OTHER**		**- -**	
S01	Broken Hill-type Pb-Zn-Ag±Cu	Shuswap-type, Ammeburg-type Pb-Zn	- -	Cottonbelt, River Jordan, Ruddock Creek
T	**MISCELLANEOUS**		**- -**	

T01	Tailings		- -	
T02	Geothermal spring	Spring water, Hot spring	- -	Liard Hot Springs
*	Unknown		- -	

Total Entries: 181

The table of Deposit Types is based on Version 2.1, May, 1996 of the British Columbia Mineral Deposit Profiles of the BC Geological Survey. This table is continually being revised. For more information or comments on the deposit profiles contact David Lefebure: phone: (250) 952-0404; email: Dave.Lefebure@gov.bc.ca; Web: http://www.em.gov.bc.ca/mining/Geolsurv/default.htm

References:

Simandl, G.J., Hora, Z.D. and Lefebure, D.V. Editors (1999): Selected British Columbia Mineral Deposit Profiles, Volume 3 - Industrial Minerals and Gemstones; *British Columbia Ministry of Energy and Mines*, Open File 1999-10, 137 pages.

Lefebure, D.V. and Hoy, T., Editors (1996): Selected British Columbia Mineral Deposit Profiles, Volume 2 - Metallic Deposits; *British Columbia Ministry of Employment and Investment*, Open File 1996-13, 172 pages.

Lefebure, D.V. and Ray, G.E., Editors (1995): Selected British Columbia Mineral Deposit Profiles, Volume 1 - Metallic and Coal; *British Columbia Ministry of Energy, Mines and Petroleum Resources*, Open File 1995-20, 136 pages.

Bibliographic Codes
MINFILE User's Manual: Appendix F

This index of codes is arranged in alphabetical order. To view a section, click on the appropriate
letter. Contacts are listed at the bottom of the page. Significant references are marked with an asterisk (*) in the
bibliography.

ANN RPT	Annual Report *(GSC)*
AAPG	American Association of Petroleum Geologists Bulletin
AEG	The Association of Exploration Geochemists
AEROMAG MAP	Aeromagnetic Map *(EMPR or EMR)*
Air Photo	Air Photograph
AR	Minister of Mines Annual Report (1874-1968) (1969-1979 includes metal production tables) *(EMPR)*
ARMS	Aggregate Resource Management System (Ministry of Transportation and Highways)
ASS RPT	Assessment Report (fiche and hard copy reports in regional offices and Victoria Library (2*)) *(EMPR)*
BC METAL	Production data file from Land Management and Policy Branch *(now Minerals, Oil and Gas Branch, Resource Development Division) (EMPR)*
BULL	Bulletin *(GSC or EMPR)*
CAN ROCKHOUND	The Canadian Rockhound; includes Internet Magazine (http://www.canadianrockhound.com/)
CANMET	CANMET (7*) - *formerly Mines Branch*
CAT	Catalogues *(GSC)*
CIM	Canadian Institute of Mining
CJES	Canadian Journal of Earth Sciences
CMH	Canadian Mines Handbook
CMJ	Canadian Mining Journal
COMM FILE	Commodity File *(EMPR)*
CSPG	Canadian Society of Petroleum Geologist Bulletin
DIAND	Department of Indian and Northern Affairs (8*)
EC GEOL	Economic Geology Report (*GSC*)
ECON GEOL	Economic Geology and Bulletin of the Society of Economic Geologists
EI	British Columbia Ministry of Employment and Investment *(used for Ministry of Energy, Mines and Petroleum Resources publications between April 1996 and February 1998)*
EMG	Exploration & Mining Geology (Journal of the Geological Society of CIM)
EMJ	Engineering and Mining Journal
EMPR or EM	British Columbia Ministry of Energy, Mines and Petroleum Resources (1*) *(formerly B.C. Department of Mines (BCDM).* Ministry of Energy and Mines since February 1998. See also **EI**.
EMR	Energy, Mines and Resources Canada (4*) (*now Natural Resources Canada* **NRCan**)
ENG INSP	Engineering and Inspection Branch (Abandoned Mines and MDRP Reports) - see **LMP**
EXPL	Exploration in British Columbia (1975-1997); Exploration and Mining in British Columbia (1998-current) (*EMPR* or EM)
EXPLORE BC	EXPLORE BC Program (1994-1996) *(EMPR)* (files: GMIP - Grassroots Mineral Incentive Program; MEIP - Mineral Exploration Incentive Program; AMEP - Accelerated Mine Exploration Program)
FIELDWORK	Fieldwork, year, page *(EMPR or EM)*
FIN POST	Financial Post
GAC	Geological Association of Canada
GB	Guidebooks (*GSC*)

GCNL	George Cross News Letter
GEM	Geology, Exploration and Mining in B.C. (1969-74) *(EMPR)*
GEOLOGY	Geology in British Columbia *(EMPR)*
GEOS MAP	Geoscience Map *(EMPR)*
Geotech File	Geotechnical File for gravel pits (Ministry of Transportation and Highways)
GSA	Geological Society of America
GSB	BC Geological Survey, Ministry of Energy, Mines & Petroleum Resources
GSC	Geological Survey of Canada (5,6*)
IAEA	International Atomic Energy Agency
INDEX	Index to Minister of Mines Annual Reports *(EMPR)*
IND MIN FILE	Industrial Minerals File *(currently with Dan Hora, GSB)*
INF CIRC	Information Circular *(EMPR or EM)*
IR	Investigation Report *(CANMET)* Information Report (Summary of Operations) (1980-1984) *(EMPR)*
IPDM	International Prospector and Developer Magazine
JGE	Journal of Geochemical Exploration
LMP	Land Management and Policy Branch (Abandoned Mine Plans Fiche) - *formerly ENG INSP and now Mines Branch (EM). Paper copies of Fiche available from Steve Netherton, Printing Service, Ministry of Transportation & Highways, ph 250 387 5660, Steve.Netherton@gov.bc.ca.*
MAC	Mining Association of Canada
MAP	Map *(GSC or EMPR)*
MB	Museum Bulletins *(GSC)*
MDAP	Mine Development Assessment Process (available in Ministry library)
MEG	Mineral Exploration Group (Vancouver)
MEIP	Mineral Exploration Incentive Program (1978-1979) *(EMPR)*
MEM	Memoir *(GSC)*
MER	Mineral Exploration Review (see also Information Circulars circa 1983-1 to present) *(EMPR)*
MIN BULL MR#	Mineral Bulletin Mr# *(EMR)*
MINING	Mining in British Columbia (1975-1980; 1981-1985; 1986-1987; 1988) *(EMPR)*
MIN POT MAP	Mineral Potential Map *(EMPR)*
MIN REV	Mining Review Magazine
MIN STATS	B.C. Mineral Statistics Annual Summary Tables (1985-1990); B.C. Mineral Output (Statistical Output) (1990 to present) *(EMPR)*
MISC RPT	Miscellaneous Reports *(GSC)*
MP COMM FILE	Commodity File *(located in Ottawa) (EMR)*
MP CORPFILE	Corporation File - *similar to our Property Files, but located in Ottawa) (EMR)*
MP RESFILE	Reserves File *(located in Ottawa) (EMR)*
MR MAP	Mineral Reference Map (showing surveyed claims) *(EMPR)*
MTH	Ministry of Transportation and Highways: District Pit or Provincial Pit (gravel pit numbers)
NAGMIN	North American Gold Mining Industry News
NGR	National Geochemical Reconnaisance (1978 and before) *(EMPR and EMR)*
N MINER	Northern Miner (http://www.northernminer.com)
N MINER MAG	Northern Miner Magazine
NRCan	Natural Resources Canada
NW PROSP	Northwest Prospector Miners & Developers Bulletin

OF	Open File (*GSC or EMPR*)
P	Paper (*GSC or EMPR*)
PAP	Prospectors Assistance Program (EXPLORE BC Program (1994-1996)) *(EMPR)*
PERS COMM	Personal Communication or Office Memos
PF	Property File (located in Victoria Library (2*)) *(EMPR)*
PRELIM MAP	Preliminary Map *(EMPR)*
PROG RPT	Progress Report *(GSC)*
PR REL	Press Release
RGS	Regional Geochemical Survey (1978-current) *(EMPR)*
RPT	Publications (*CANMET*)
SMF	Statement of Material Facts
SUM RPT	Summary Report (*GSC*)
TB	Technical Bulletin (*CANMET*)
USGS	United States Geological Survey
VSE	Vancouver Stock Exchange (merged with Alberta Stock Exchange on November 29, 1999 to become Canadian Ventures Exchange Inc. (CDNX)
STOCKWATCH	Stockwatch, formerly Vancouver Stockwatch (V STOCKWATCH)
WIN	Western Investment News
W MINER	Western Miner and Oil Review Magazine
WWW http://	World Wide Web (Internet) (see Industry Web Links in MINFILE)

Contacts:

1. **MINFILE, BC Geological Survey, Ministry of Energy, Mines & Petroleum Resources,** P.O. Box 9333, Stn Prov Gov't, Victoria, BC, V8W 9N3; Office: 5th Floor - 1810 Blanshard Street, Phone: (250) 952-0429, Fax: (250) 952-0381, Email: Kirk.Hancock@gov.bc.ca; WWW: http://www.em.gov.bc.ca/Mining/Geolsurv/Minfile/default.htm.

2. **Ministry of Energy, Mines & Petroleum Resources, Library Services,** P.O. Box 9321, Stn Prov Gov't, Victoria, BC, V8W 9N3; Office: 1st Floor - 1810 Blanshard Street, Phone: (250) 952-0660, Fax: (250) 952-0581, Email: Jennifer.Lu@gov.bc.ca; WWW: http://www.em.gov.bc.ca/Publicinfo/Library/default.htm.

3. **Crown Publications Inc.**, 106 Ontario Street, Victoria, B.C. V8V 1M9, Phone: (250) 386-4636 or toll-free 1-877-747-4636, Fax: (250) 386-0221; EMail: crownpub.bc.ca; WWW: http://www.crownpub.bc.ca.

4. **National Mineral Inventory (NMI)/CORPFILE,** Natural Resources Canada, Minerals & Mining Statistics Division, Minerals and Metals Sector, 580 Booth Street, 9th Floor, Room 9A3, Ottawa, Ontario, K1A 0E8; **Contacts: Yvan Gauthier, Director. Phone: (613) 996-5786, Toll-free: 1-877-336-3100; Email:**ygauthie@nrcan.gc.ca; WWW: http://www.miningstats.nrcan.gc.ca. *(Note: MINSYS - computer database is no longer active; status of NMI and CORPFILE is unknown.)*

5. *Earth Sciences Information Centre (ESIC), Geological Survey of Canada (GSC),* 601 Booth Street, Ottawa, Ontario, K1A 0E8; *Bookstore: Phone (613) 995-4342, 1-888-252-4301 (toll free)Fax (613) 943-0646, Email: gscbookstore@nrcan.gc.ca;* WWW: http://gsc.nrcan.gc.ca/bookstore/index_e.php *;* ***Library:** Phone: (613) 996-3919, Fax: (613) 943-8742, Email: esic@nrcan.gc.ca;* **Interlibrary Loan**

Service: Phone: (613) 996-1604, Fax: (613) 943-8742, Email: ill@gsc.nrcan.gc.ca; GSC WWW: http://www.nrcan.gc.ca/libraries/03_e.html; ESIC WWW: http://ess.nrcan.gc.ca/esic/index_e.php.

6. **Geoscience Research Library, Geological Survey of Canada,** *625 Robson St., Vancouver, BC, V6B 5J3, Phone: (604) 666-3812, Fax: (604) 666-7186, Email:* libvan@nrcan.gc.ca; **Maps and Publication Sales:** *625 Robson St., Phone: (604) 666-0271, Fax: (604) 666-1337;* **Reception:** *625 Robson St., Phone: (604) 666-0529, Fax: 666-1124; WWW:* http://gsc.nrcan.gc.ca/index_e.php; *GSC Vancouver Publications (from GEOSCAN):* http://geoscan.ess.nrcan.gc.ca/cgi-bin/starfinder/0?path=geoscan.fl&id=fastlink&pass=&format=flshort&search=gscdv==gscpv

7. **Minerals and Metals Sector, CANMET - Mineral Technology Branch,** *555 Booth St., Ottawa, Ontario, K1A 0G1, Phone: (613) 995-4088; Fax: (613) 947-6606; WWW:* http://www.nrcan.gc.ca/mms/canmet-mtb/homeeng.htm *(Note: this contact is unconfirmed.)*

8. **Exploration and Geological Services Division, Indian and Northern Affairs,** *102-300 Main Street, Whitehorse, YT, Y1A 2B5;* **Contacts:** *Grant Abbott, Chief Geologist, Phone: (867) 667-3200, Fax: (867) 393-6232, Email:* grant.abbott@gov.yk.ca; *Robert Deklerk, Minfile Geologist, Phone: (867) 667-3205, Fax: (867) 667-3198, Email:* robert.deklerk@gov.yk.ca; *WWW:* http://www.geology.gov.yk.ca/.

MINFILE/pc V. 4.5 Database Structure
MINFILE User's Manual: Appendix G

A: Entity Files

B: Relationship Files

C: Comment Files

D: Entity/Relationship Models

This data structure is the previous version of MINFILE. It acts as a guide to the current data structure of Version 5.0, which is similar, but has been modified to accommodate changes in the application. View MINFILE/pc V. 5.0 Data Structure.

A. ENTITY FILES:

File	Field	Size	Alias
E01	MINFILNO	9	MINFILE_NUMBER
	LAT_DEG	2	LATITUDE_DEGREES
	LAT_MIN	2	LATITUDE_MINUTES
	LAT_SEC	2	LATITUDE_SECONDS
	LAT_HEMI	1	LATITUDE_HEMISPHERE
	LONG_DEG	3	LONGITUDE_DEGREES
	LONG_MIN	2	LONGITUDE_MINUTES
	LONG_SEC	2	LONGITUDE_SECONDS
	LONG_HEMI	1	LONGITUDE_HEMISPHERE
	N83_LATDEG	2	NAD83_LATITUDE_DEGREES
	N83_LATMIN	2	NAD83_LATITUDE_MINUTES
	N83_LATSEC	2	NAD83_LATITUDE_SECONDS
	N83_LATHEM	1	NAD83_LATITUDE_HEMISPHERE
	N83_LONDEG	3	NAD83_LONGITUDE_DEGREES
	N83_LONMIN	2	NAD83_LONGITUDE_MINUTES
	N83_LONSEC	2	NAD83_LONGITUDE_SECONDS
	N83_LONHEM	1	NAD83_LONGITUDE_HEMISPHERE
	UTM_ZONE	2	UTM_ZONE
	UTM_EAST	6	UTM_EASTING
	UTM_NORT	8	UTM_NORTHING
	N83_ZONE	2	N83_UTM_ZONE
	N83_EAST	6	N83_UTM_EASTING
	N83_NORT	8	N83_UTM_NORTHING
	ELEV	4	ELEVATION
	LOC_ACC	1	DEPOSIT_LOCATION_ACCURACY
	DEPSIZEL	4	DEP_SIZE_L
	DEPSIZEB	4	DEP_SIZE_B
	DEPSIZEW	4	DEP_SIZE_W
	DIP	3	DEPOSIT_DIP

```
            STRIKE          3           DEPOSIT_STRIKE
            PLUNGE          6           DEPOSIT_TREND_PLUNGE
            NATMINNO        18          NAT_MIN_INV_NO
            CANMINNO        6           CANMINDEX_NUMBER
            CODED           8           DATE_CODED
            REVISED         8           DATE_REVISED
            GREVISED        4           GEOLOGIST_REVISE
            FREVISED        1           FIELD_REVISED
            FCHECKED        1           FIELD_CHECKED
            GNAME           4           GEOLOGIST_NAME
            OPENPIT         1           OPEN_PIT
            UGROUND         1           UNDER_GROUND

    E02     STATUS_C        4           STATUS_TYPE_CODE
            STATUS_D        20          STATUS_TYPE_DESCRIPTION
            QMAPSYM         15          MAP_SYMBOL
            SYM_LN_TYP      2           SYMBOL_LINE_TYPE
            HATCH_PATT      2           HATCH_PATTERN
            SIZE_THICK      3           SYMBOL_SIZE
            LBL_SIZE        3           LABEL_SIZE

    E03     DOMHRK_C        1           DOMINANT_HOST_ROCK_CODE
            DOMHRK_D        15          DOMINANT_HOST_ROCK_DESCRIPTION

    E04     DEPMOD_C        1           DEPOSIT_MODIFIER_CODE
            DEPMOD_D        15          DEPOSIT_MODIFIER_DESCRIPTION

    E05     DEPCHR_C        2           DEPOSIT_CHARACTER_CODE
            DEPCHR_D        20          DEPOSIT_CHARACTER_DESCRIPTION

    E06     DEPSHA_C        2           DEPOSIT_SHAPE_TYPE_CODE
            DEPSHA_D        12          DEPOSIT_SHAPE_TYPE_DESCRIPTION

    E07     DEPCLA_C        2           DEPOSIT_CLASSIFICATION_CODE
            DEPCLA_D        15          DEPOSIT_CLASSIFICATION_DESC.

    E09     MINDIV_C        4           MINING_DIVISION_CODE
            MINDIV_D        15          MINING_DIVISION_DESCRIPTION

    E10     NTSMAP_C        7           NTS_MAPSHEET

    E11     BCMAP_C         7           BC_MAPSHEET

    E12     TECBLT_C        2           TECTONIC_BELT_CODE
            TECBLT_D        18          TECTONIC_BELT_DESCRIPTION

    E13     TERRAN_C        3           TERRANE_CODE
            TERRAN_D        30          TERRANE_DESCRIPTION
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E14      PHYSIO_C       4         PHYSIOGRAPHIC_AREA_CODE
         PHYSIO_D       30        PHYSIOGRAPHIC_AREA_DESCRIPTION

E15      META_T_C       1         METAMORPHIC_TYPE_CODE
         META_T_D       10        METAMORPHIC_TYPE_DESCRIPTION

E16      META_G_C       2         METAMORPHIC_GRADE_CODE
         META_G_D       15        METAMORPHIC_GRADE_DESCRIPTION

E17      META_R_C       1         METAMORPHIC_RELATIONSHIP_CODE
         META_R_D       20        METAMORPHIC_RELATIONSHIP_DESC.

E18      YEAR           4         YEAR

E19      COMMOD_C       2         COMMODITY_CODE
         COMMOD_D       30        COMMODITY_DESCRIPTION

E20a     MINCLA_C       1         MINERALOGY_CLASS_CODE
         MINCLA_D       15        MINERALOGY_CLASS_DESCRIPTION

E20b     MINERL_C       4         MINERAL_CODE
         MINERL_D       20        MINERAL_DESCRIPTION

E21      ALTER_C        4         ALTERATION_CODE
         ALTER_D        12        ALTERATION_DESCRIPTION

E22      DATMET_C       2         DATING_METHOD_CODE
         DATMET_D       30        DATING_METHOD_DESCRIPTION

E23      STNAME_C       6         STRATIGRAPHIC_NAME_CODE
         STNAME_D       30        STRATIGRAPHIC_NAME_DESCRIPTION
         STINFORM       1         STRATIGRAPHIC_NAME_INFORMAL
         STIGMETA       1         STRATIGRAPHIC_NAME_IG_META
         STGROUP        1         STRATIGRAPHIC_NAME_GROUP
         STFORM         1         STRATIGRAPHIC_NAME_FORMATION

E24      ST_AGE_C       3         STRATIGRAPHIC_AGE_CODE
         ST_AGE_D       20        STRATIGRAPHIC_AGE_DESCRIPTION

E25      ROCK_T_C       4         ROCK_TYPE_CODE
         ROCK_T_D       30        ROCK_TYPE_DESCRIPTION

E26      ROCK_M_C       4         ROCK_MODIFIER_CODE
         ROCK_M_D       30        ROCK_MODIFIER_DESCRIPTION

E27      OREZON_C       5         ORE_ZONE_CODE
         OREZON_D       30        ORE_ZONE_DESCRIPTION

E28      SAMPLE_C       4         SAMPLE_TYPE_CODE
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         SAMPLE_D        30          SAMPLE_TYPE_DESCRIPTION

   E29   RESCAT_C        2           RESERVE_CATEGORY_CODE
         RESCAT_D        30          RESERVE_CATEGORY_DESCRIPTION

   E30   DEPTYP_C        5           DEPOSIT_TYPE_CODE
         DEPTYP_D        50          DEPOSIT_TYPE_DESCRIPTION
         SYNONYM         50          SYNONYM
         USGS            10          USGS_TYPE
         OTH_SOURCE      20          OTHER_SOURCE
         REFERENCE       30          REFERENCE
         GLOBAL_EX       90          GLOBAL_EXAMPLE
         BC_EX           50          BC_EXAMPLE
         AUTHOR          20          AUTHOR

   E31   PROJ_NO         7           PROJECT_NUMBER
         PROPERTY        30          PROPERTY_NAME
         PROPERTY_2      30          PROPERTY_NAME2
         OWNER           30          OWNER_NAME
         OWNER_2         30          OWNER_NAME2
         OPERATOR        30          OPERATOR_NAME
         DIST_SEQNO      3           DISTRICT_SEQUENCE_NUMBER
         DIST_MAPNO      3           DISTRICT_MAP_NUMBER
         LAT_DEG         2           LATITUDE_DEGREE
         LAT_MIN         2           LATITUDE_MINUTE
         LAT_SEC         2           LATITUDE_SECOND
         LAT_HEMI        1           LATITUDE_HEMISPHERE
         LON_DEG         3           LONGITUDE_DEGREES
         LON_MIN         2           LONGITUDE_MINUTES
         LON_SEC         2           LONGITUDE_SECONDS
         LON_HEMI        1           LONGITUDE_HEMISPHERE
         N83_LATDEG      2           NAD83_LATITUDE_DEGREES
         N83_LATMIN      2           NAD83_LATITUDE_MINUTES
         N83_LATSEC      2           NAD83_LATITUDE_SECONDS
         N83_LATHEM      1           NAD83_LATITUDE_HEMISPHERE
         N83_LONDEG      3           NAD83_LONGITUDE_DEGREES
         N83_LONMIN      2           NAD83_LONGITUDE_MINUTES
         N83_LONSEC      2           NAD83_LONGITUDE_SECONDS
         N83_LONHEM      1           NAD83_LONGITUDE_HEMISPHERE
         LOC_ACC         1           LOCATION_ACCURACY_CODE
         CR_DATE         8           CREATED_DATE
         RV_DATE         8           REVISED_DATE
         CHECKED_BY      5           CHECKED_BY

   E32   NOTIC_TYP       1           NOTICE_TYPE_CODE
         NOTIC_DESC      20          NOTICE_TYPE_DESCRIPTION

   E33   PRJTYP_C        1           PROJECT_TYPE_CODE
         PRJTYP_D        20          PROJECT_TYPE_DESCRIPTION
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```
               QMAPSYM           15         MAP_SYMBOL
               SYM_LN_TYP        2          SYMBOL_LINE_TYPE
               HATCH_PATT        2          HATCH_PATTERN
               SIZE_THICK        3          SYMBOL_SIZE
               LBL_SIZE          3          LABEL_SIZE


    E34        STAGE_C           1          MDAP_STAGE_CODE
               STAGE_D           15         MDAP_STAGE_DESCRIPTION


    E40        REGION_C          5          REGION_CODE
               REGION_D          50         REGION_DESCRIPTION
               COMMENTS          70         COMMENTS
               WML_DEG           4          WESTERN_LONGITUDE_DEGREES
               WML_MIN           2          WESTERN_LONGITUDE_MINUTES
               WML_SEC           2          WESTERN_LONGITUDE_SECONDS
               EML_DEG           4          EASTERN_LONGITUDE_DEGREES
               EML_MIN           2          EASTERN_LONGITUDE_MINUTES
               EML_SEC           2          EASTERN_LONGITUDE_SECONDS
               NML_DEG           3          NORTHERN_LATITUDE_DEGREES
               NML_MIN           2          NORTHERN_LATITUDE_MINUTES
               NML_SEC           2          NORTHERN_LATITUDE_SECONDS
               SML_DEG           3          SOUTHERN_LATITUDE_DEGREES
               SML_MIN           2          SOUTHERN_LATITUDE_MINUTES
               SML_SEC           2          SOUTHERN_LATITUDE_SECONDS


    E41        LABEL_C           3          SCREEN_LABEL_CODE
               LABEL_DESC        80         SCREEN_LABEL_DESCRIPTION
```

B. RELATIONSHIP FILES:

File	Field	Size	Alias
R02	MINFILNO	9	MINFILE_NUMBER
	STATUS_C	4	STATUS_TYPE_CODE
R03	MINFILNO	9	MINFILE_NUMBER
	DOMHRK_C	1	DOMINANT_HOST_ROCK_CODE
R04	MINFILNO	9	MINFILE_NUMBER
	DEPMOD_C	1	DEPOSIT_MODIFIER_CODE
R05	MINFILNO	9	MINFILE_NUMBER
	DEPCHR_C	2	DEPOSIT_CHARACTER_CODE
R06	MINFILNO	9	MINFILE_NUMBER
	DEPSHA_C	2	DEPOSIT_SHAPE_TYPE_CODE
R07	MINFILNO	9	MINFILE_NUMBER

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              DEPCLA_C            2               DEPOSIT_CLASSIFICATION_CODE

    R08       MINFILNO            9               MINFILE_NUMBER
              NAME                30              NAME

    R09       MINFILNO            9               MINFILE_NUMBER
              MINDIV_C            4               MINING_DIVISION_CODE

    R10       MINFILNO            9               MINFILE_NUMBER
              NTSMAP_C            7               NTS_MAPSHEET

    R11       MINFILNO            9               MINFILE_NUMBER
              BCMAP_C             7               BC_MAPSHEET

    R12       MINFILNO            9               MINFILE_NUMBER
              TECBLT_C            2               TECTONIC_BELT_CODE

    R13       MINFILNO            9               MINFILE_NUMBER
              TERRAN_C            3               TERRANE_CODE

    R14       MINFILNO            9               MINFILE_NUMBER
              PHYSIO_C            4               PHYSIOGRAPHIC_AREA_CODE

    R15       MINFILNO            9               MINFILE_NUMBER
              META_T_C            1               METAMORPHIC_TYPE_CODE

    R16       MINFILNO            9               MINFILE_NUMBER
              META_G_C            2               METAMORPHIC_GRADE_CODE

    R17       MINFILNO            9               MINFILE_NUMBER
              META_R_C            9               METAMORPHIC_RELATIONSHIP_CODE

    R18a      MINFILNO            9               MINFILE_NUMBER
              YEAR                4               YEAR
              MINED               12              ORE_MINED
              MILLED              12              ORE_MILLED

    R18b      MINFILNO            9               MINFILE_NUMBER
              YEAR                4               YEAR
              COMMOD_C            2               COMMODITY_CODE
              QUANTITY            12              QUANTITY

    R19       MINFILNO            9               MINFILE_NUMBER
              COMMOD_C            2               COMMODITY_CODE

    R20       MINFILNO            9               MINFILE_NUMBER
              MINCLA_C            1               MINERALOGY_CLASS_CODE
              MINERL_C            4               MINERAL_CODE
```

```
R21      MINFILNO        9       MINFILE_NUMBER
         ALTER_C         4       ALTERATION_CODE


R22      MINFILNO        9       MINFILE_NUMBER
         DATMET_C        2       DATING_METHOD_CODE
         ISOAGE          20      ISOTOPIC_AGE_MINERALIZATION
         MATERIAL        30      MATERIAL_DATED_MINERALIZATION
R23      MINFILNO        9       MINFILE_NUMBER
         ST_AGE_C        3       STRATIGRAPHIC_AGE_CODE
         STNAME_C        6       STRATIGRAPHIC_NAME_CODE
         DATMET_C        2       DATING_METHOD_CODE
         ISOAGE          20      ISOTOPIC_AGE_HOST
         MATERIAL        30      MATERIAL_DATED_HOST


R24      MINFILNO        9       MINFILE_NUMBER
         ST_AGE_C        3       MINERALIZATION_AGE_CODE


R25      MINFILNO        9       MINFILE_NUMBER
         ROCK_T_C        4       ROCK_TYPE_CODE
         ROCK_M_C        4       ROCK_MODIFIER_CODE
         LITHUNIT        11      LITHOLOGICAL_UNIT


R26      MINFILNO        9       MINFILE_NUMBER
         OREZON_C        5       ORE_ZONE_CODE
         RESCAT_C        2       RESERVE_CATEGORY_CODE
         A_OR_B          1       A_OR_B
         YEAR            4       YEAR
         QUANTITY        12      QUANTITY
         REPORT_ON       1       REPORT_ON


R27      MINFILNO        9       MINFILE_NUMBER
         OREZON_C        5       ORE_ZONE_CODE
         A_OR_B          1       A_OR_B
         YEAR            4       YEAR
         SAMPLE_C        4       SAMPLE_TYPE_CODE


R28      MINFILNO        9       MINFILE_NUMBER
         OREZON_C        5       ORE_ZONE_CODE
         RESCAT_C        2       RESERVE_CATEGORY_CODE
         A_OR_B          1       A_OR_B
         COMMOD_C        2       COMMODITY_CODE
         GRADE           9       GRADE


R30      MINFILNO        9       MINFILE_NUMBER
         DEPTYP_C        5       DEPOSIT_TYPE_CODE


R31      PROJ_NO         7       PROJECT_NUMBER
         MINFILNO        9       MINFILE_NUMBER
```

```
R32a      PROJ_NO          7          PROJECT_NUMBER
          NOW_NO           9          NOTICE_NUMBER
          NOTIC_TYP        1          NOTICE_TYPE_CODE
          RECVD_DATE       8          RECEIVED_DATE
          APRV_DATE        8          APPROVED_DATE
          OPERATOR         30         OPERATOR
          MANAGER          30         MANAGER
          MGR_TEL          14         MANAGER_TELEPHONE
          WK_START         8          WORK_STARTED
          WK_END           8          WORK_ENDED
          EXP_BUD          13         EXPLORATION_BUDGET
          PROD_BUD         13         PRODUCTION_BUDGET
          COMPLETED        1          COMPLETED
          DISCUSSED        1          DISCUSSED
          MDSCREV          1          MDSC_REVIEW
          DEP_TARGET       60         DEPOSIT_TARGET

R32b      PROJ_NO          7          PROJECT_NUMBER
          NOW_NO           9          NOTICE_NUMBER
          WK_TODO          70         WORK_TO_DO
          WK_DONE          70         WORK_DONE

R33       PROJ_NO          7          PROJECT_NUMBER
          PRJTYP_C         1          PROJECT_TYPE_CODE

R34       PROJ_NO          7          PROJECT_NUMBER
          NOW_NO           9          NOTICE_NUMBER
          STAGE_C          1          MDAP_STAGE_CODE

R35       PROJ_NO          7          PROJECT_NUMBER
          MINDIV_C         4          MINING_DIVISION

R36       PROJ_NO          7          PROJECT_NUMBER
          NTSMAP_C         7          NTS_MAP

R39       PROJ_NO          7          PROJECT_NUMBER
          REGION_C         4          REGION_CODE

R40       MINFILNO         9          MINFILE_NUMBER
          REGION_C         4          REGION_CODE
```

C. COMMENT FILES:

```
File      Field            Size       Alias


C01       MINFILNO         9          MINFILE_NUMBER
          IDENT_T          70         IDENTIFICATION_COMMENTS
```

```
C02       MINFILNO        9         MINFILE_NUMBER
          SIGMIN_T        70        SIGNIFICANT_MINERALS_COMMENTS

C03       MINFILNO        9         MINFILE_NUMBER
          ASSMIN_T        70        ASSOCIATED_MINERALS_COMMENTS

C04       MINFILNO        9         MINFILE_NUMBER
          ALTMIN_T        70        ALTERATION_MINERALS_COMMENTS

C05       MINFILNO        9         MINFILE_NUMBER
          STRUCT_T        70        STRUCTURAL_COMMENTS

C06       MINFILNO        9         MINFILE_NUMBER
          HSTRCK_T        70        HOST_ROCK_COMMENTS

C07       MINFILNO        9         MINFILE_NUMBER
          META_T          70        METAMORPHISM_COMMENT

C08       MINFILNO        9         MINFILE_NUMBER
          CAPSUL_T        70        CAPSULE_GEOLOGY_COMMENTS

C09       MINFILNO        9         MINFILE_NUMBER
          BIBLIO_T        70        BIBLIOGRAPHY_COMMENTS

C10       MINFILNO        9         MINFILE_NUMBER
          YEAR            4         YEAR
          PROD_T          66        PRODUCTION_COMMENT

C11       MINFILNO        9         MINFILE_NUMBER
          OREZON_C        5         ORE_ZONE_CODE
          RESCAT_C        2         RESERVE_CATEGORY_CODE
          A_OR_B          1         A_OR_B
          RESERV_T        70        RESERVES_COMMENTS

C12       MINFILNO        9         MINFILE_NUMBER
          OREZON_C        5         ORE_ZONE_CODE
          RESCAT_C        2         RESERVE_CATEGORY_CODE
          A_OR_B          1         A_OR_B
          RESREF_T        70        RESERVES_REFERENCE

C13       MINFILNO        9         MINFILE_NUMBER
          CONF_NOTE       70        CONFIDENTIAL_NOTES

C14       PROJ_NO         7         PROJECT_NUMBER
          EXPL_T          70        EXPLORATION_COMMENTS
```

NOTE: All fields are character.
           New to Version 5.0.

D. ENTITY/RELATIONSHIP MODELS:

[MINFILE Entity/Relationship Data Model](#)
[Exploration Entity/Relationship Data Model](#)
[Inventory Entity/Relationship Data Model](#)
[Textual Relations Data Model](#)

If printing data models, set printer orientation to Landscape.

Data Entry Examples
MINFILE User's Manual: Appendix H

BC Geological Survey staff (see contacts in Chapter VII) and pre-authorized users are permitted to make revisions to the corporate MINFILE database. To obtain authorization to capture mineral occurrence data online please contact the BC Geological Survey. You will be asked to provide an email address where you may be contacted in the event that the data submitted requires further clarification. (Should your email address change over time please notify the MINFILE office). They will also add you to the appropriate user tables and you will be provided with the secure address to the MINFILE/www Coding Card which is transparent to common users. Should you obtain access the examples below will provide insight into how to edit or create a new occurrence or see MINFILE/www Coding Card Forms for further information.

Examples:

1. Adding a new occurrence
2. How to select the screen/tab you want
3. How to edit an existing occurrence
4. How to append a commodity to an existing list
5. How to revise copper to read cobalt in the commodities
6. Revising a comment field
7. Browsing the lithologies field
8. Adding to the Metamorphic Type
9. Submitting changes to the database
10. To change screens before submitting your work (Submit vs. Save Command)
11. To delete existing production data.

1. To add a new occurrence - click on **Add New Occurrence** in the left hand column. If you are not pre-authorized this option will not appear on your screen and you will not be able to access the MINFILE/www Coding Card.

2. To select the screen you want - simply click on one of these seven tabs:

3. To edit an occurrence, search for it, open it by double clicking the MINFILE Number in the search results table, and then hit the *Revise MINFILE Occurrence* button:

4. When appending a commodity to an existing list of commodities. Eg. To add "cobalt" to the commodities list. Search for the occurrence, open it by double clicking the MINFILE Number in the search results table, and then hit the **Revise MINFILE Occurrence** button. Go into the **Mineral Occurrence Tab** to get to the commodities area. Select "cobalt" from the pull-down menu, then click **Add**:

5. Revising "copper" to read "cobalt" in the Commodities list - Search for the occurrence, open it by double clicking the MINFILE Number in the search results table, and then hit the **Revise MINFILE Occurrence** button. Go into the **Mineral Occurrence Tab** and **delete** the commodity "copper" from the pull down. Select "cobalt" and click **Add**. You can always drag and drop afterwards to rearrange the order of the commodities:

BRITISH COLUMBIA

Logged in User: Laura deGroot(Administrator)

B.C. HOME

y of Energy, Mines & etroleum Resources

LE Mineral Inventory

Occurrence

ch

MINFILE Coding Card

MINFILE Number: 082ENE012

MINFILE Name: ELLSWORTH

MINFILE System Status:

Print | PDF | -- SELECT REPORT

| Save | Submit | Delete |

| Approve | Reject |

File Created: by
Last Edit: by

☐ Approver as a Coder to update this re

**Enter the MINFILE Occurrence revision below and click Save.
The previous values are displayed in red for reference.**

| Identification & Location | Mineral Occurrence | Host Rock | Geological Setting | Inventory | Production | Capsule Geology & Bibliography |

MINERAL OCCURRENCE

Mineral Oc

*

Commodity	
Copper	X
Gold	X
Silver	X
- ▾	Add

Copper
Gold
Silver

6. Revising any comment field containing text. Hit **Revise MINFILE occurrence** from MINFILE Record Summary. Go into the *appropriate tab* and make any edits required, hit **Save**.

SH
BIA

MINFILE Home page
ARIS Home page
MINFILE Search

Logged in User: Laura deGroot(Administra

HOME

MINFILE Coding Card

Print | PDF | v | -- SELECT RE

lines &
ources

Save | Submit | De

MINFILE Number: 082ENE012

Approve | Rejec

ventory

MINFILE Name: ELLSWORTH

File Created: by
Last Edit: by

MINFILE System Status:

☐ Approver as a Coder to update th

Enter the MINFILE Occurrence revision below and click Save.
The previous values are displayed in red for reference.

| Identification & Location | Mineral Occurrence | Host Rock | Geological Setting | Inventory | Production | Capsule Geology & Bibliography | |

    Collapse Capsule Geology

Capsule Geology   Ca

Original Value
*

The ELLSWORTH showing is located on St. John Ridge, approximately 13.5 kilometres to the
west-southwest of Christian Valley.

The showing consists of a quartz vein hosted by limestone and quartzite of the Carboniferous-
Permian Anarchist Group.

Mineralization includes pyrite, pyrrhotite and chalcopyrite in a gangue of quartz-epidote-
calcite. The vein is reported to be wide; no dimensions are given. It strikes 190 degrees
and dips to the west; no dip angle is given. Early reports refer to a massive body of
arsenical iron pyrite containing gold and silver values and underlain by iron-stained barren
quartz. An average sample in 1901 assayed 50 cents (about 0.75 gram) gold and 102 grams
per tonne silver (Minister of Mines Annual Report 1901, page 1142). Presumably, the

Bibliography

7. Browsing the Lithologies field can be done in two ways. Search on an occurrence and view the
MINFILE Detailed Report where lithologies will be listed (if they exist) under the Host Rock section of the
report. OR From the MINFILE/www Coding Card, search and select an occurrence, click on *Revise
Mineral Occurrence*, go into the *Host Rock Tab* and they will be listed there. From here you can also
make edits, delete or add to the lithologies. The drag and drop function works here if you wish to reorder
the list.

Enter the MINFILE Occurrence revision below and click Save.
The previous values are displayed in red for reference.

| Identification & Location | Mineral Occurrence | Host Rock | Geological Setting | Inventory | Production | Capsule Geology & Bibliography |

HOST ROCK   Ho:

Dominant Host*   Plutonic

○ Metamorphic   ○ Metasedimentary   ◉ Plutonic   ○ Unknown

○ Metaplutonic   ○ Metavolcanic   ○ Sedimentary   ○ Volcanic

FORMAL HOST   Form

Either*

Stratigraphic Age	Group	Formation	Isotopic Age	Dating Method	Material Da
- ▾	- ▾	- ▾		- ▾	

INFORMAL HOST   Inform

Middle Jurassic - Osprey Lake Intrusions - - -
Or*

Stratigraphic Age	Igneous/Metamorphic/Other	Isotopic Age	Dating Method	Material Da
Middle Jurassic	Osprey Lake Intrusions			-
- ▾	- ▾		- ▾	

LITHOLOGIES   Lith

Granodiorite - - -
Diorite - - -
Dike - Aplite - -
*

Rock Type	Modifier #1	Modifier #2	Modifier #3

8. Inserting "Regional" in the Metamorphic Type field - Search for the occurrence, open it by double clicking the MINFILE Number in the search results table, and then hit the **Revise MINFILE Occurrence** button. Go into the **Geological Setting Tab** and under the <u>Metamorphism heading</u> you will see a section called "Type". Click on the box next to the word "regional" and click Save:

MINFILE Coding Card

Print | PDF

Save

Approve

MINFILE Number: 082ENW014

MINFILE Name: ARNIE

File Created:
Last Edit:

MINFILE System Status:

☐ Approver as a

Enter the MINFILE Occurrence revision below and click Save.
The previous values are displayed in red for reference.

Identification & Location	Mineral Occurrence	Host Rock	Geological Setting	Inventory	Production	Capsule Geolog & Bibliography

GEOLOGICAL SETTING

Tectonic Belt *

Plutonic Rocks*

Intermontane

Terrane

○ Coast Crystalline   ○ Insular ⦿ Intermontane ○ Omineca ○ Unknown

Plutonic Rock

○ Foreland

-

Physiographic Region
Thompson Plateau

Thompson Plateau ▼

METAMORPHISM

Type

☐ Contact   ☐ Regional   ☐ Unknown

Relationship

☐ Post-mineralization   ☐ Pre-mineralization   ☐ Syn-mineralization   ☐ Unknown

9. Submitting changes to the database can be executed by using the **Save** command. It is important to save any revisions or entries on each tab separately as you go along. When the record has been completely edited or completed then click **Submit** on the right hand side of the MINFILE Coding Card screen as seen below to submit your record to the Ministry for approval:

10. To change screens before submitting your work, hit **Save** first on the current screen to save your changes and then go into any other tab you want and continue working.

11. To delete existing Production data: Search for the occurrence, open it by double clicking the MINFILE Number in the search results table, and then hit the **Revise MINFILE Occurrence** button. Go into the **Production Tab** and look at the production data. Simply click on the **X** next to the line you wish to delete. A confirmation message will appear - see below - to confirm if you want to delete the entry for that record. Click either **OK** or **Cancel**. You must then click on **Save** to save your changes to this record. If you are done with the record completely then hit **Submit**.

please select Commodity for entered Production year)

Production Year	Tonnes Mined	Tonnes Milled	Comments	
			1.5-tonne sample of high-grade ore from trenches from the 22 zone.	
1971	2	2	8.75 tonnes of hand-cobbed ore from trenches from the 22 zone.	X
1979	9	9		X
1995	100243	97706		X
1996	102395	102395		X
1997	110161	110161		X
1998	162000	162000		X
1999	175086	175086		X
2000	192323	192323	Production up to June 30; Homestake Mining Company Ann. Rpt. 2000.	X
2001	208652	208652		X

Microsoft Internet Explorer

? Are you sure you want to delete this record ?

OK   Cancel

MINFILE/pc HelpDesk and Frequently Asked Questions (F.A.Q.)
MINFILE User's Manual: Appendix I

Welcome to the MINFILE/pc HelpDesk and Frequently Asked Questions site! This site lists some of the most common questions, problems, and solutions for MINFILE/pc. The 'Look In' comment links to the appropriate section or additional information in the MINFILE/pc User's Manual. If you can't find what you're looking for, please contact the MINFILE staff. Attempts will be made to update this site periodically.

Common Problems and Solutions

The site is organized according to problem area. Click on one of the choices below to view related problems and solutions.

A: Software Downloads
B: Searches
C: Utilities
D: Data Entry
E: Printing and Reports
F: Miscellaneous
G: Contact

A. Software Downloads

Problem: *How do I install MINFILE/pc in Windows 95, 98 or Windows 2000?*
Solution: *Download it from our website at http://minfile.gov.bc.ca*
Look In: Your Windows 95 manual or Help system; Chapter I, Section B3: Installing MINFILE/pc or Appendix J: The MINFILE/pc Readme.doc File

Problem : *I don't have enough memory to install MINFILE.*
Solution: Try to close other programs and remove TSRs to free memory.
Look In:

B. Searches

Problem: *How do I create a custom set of data to extract or report on that cannot be created by a search.*
Solution: Use a text editor to create a .TXT file with a list of the occurrences you would like; then import the file via the Import Numbers Tab and run a search. Make sure that the syntax for MINFILE numbers is correct. (e.g. 094E 004 with 2 spaces between 094E and 004).

Problem: *Where do I find the codes for the search.*
Solution: Refer to the section on Searches. This may be viewed in the Appendices to both the Coding Manual and this User Manual on the MINFILE web site.

Look In: Appendices A1: Mining Division Codes, A2: Tectonic Belt Codes, A3: Terrane Codes, A4: Physiographic Area Codes, A5: Region Table, B: MINFILE Commodity Codes, C: MINFILE Mineral, Rock and Modifier Codes, D: Stratigraphic Age Codes. E: Mineral Deposit Profiles, F: Bibliographic Codes

Problem: *My longitude/latitude does not work.*
Solution: The left column should have the northwest corner and the right column should have the southeast corner of the search area.

Look In: Chapter II, Section E: General Comments on Searches in MINFILE and Chapter III: Searching the MINFILE Database.

C. Utilities

Problem: *How do I get a file that I can use for plotting.*
Solution: Create your subset through the search menu; from the Search Results Report you can download several types of files in digital format.

D. Data Entry

Problem: *How do I get access to the MINFILE Coding Card for data entry/coding?*
Solution: Contact the MINFILE Team to obtain free access. You must also apply for a free Basic or Business BCeID.

E. Printing and Reports

Problem: *This message shows up: "Printer unavailable".*
Solution: The printer may not be turned on. Check printer connections.

Problem: *How do I generate a report on a random selection of occurrences.*
Solution: Do a search, then print the report.

F. Miscellaneous

G: Contact

If the above problems and solutions have not helped you, or if you need more information, please contact any member of the MINFILE Project at:

Kirk.Hancock@gov.bc.ca, MINFILE Geologist
Laura.DeGroot@gov.bc.ca, Coding Card Access
Larry.Jones@gov.bc.ca, Senior Geologist

The MINFILE/pc and MINFILE/www Readme.doc File

MINFILE User's Manual: Appendix J

MINFILE/pc Version 5.0 (Information Circular 2007-5)
British Columbia Geological Survey
Victoria, BC
June, 2007

TABLE OF CONTENTS:

Features of Version 5.0:

In 2006, MINFILE/pc Version 5.0 was released. This version was converted to an MS Access application that is downloadable from the web. Due to the large file size MINFILE/pc is a compressed (zipped) file. Version 5.0 is not compatible with older versions of MINFILE/pc. At this time, a new component called MINFILE/www was introduced to provide online data entry and online access to the MINFILE database.

FEATURES OF VERSION 5.0

- Georeferencing changes: new electoral district and forest district fields.
- New extract files and formats: in ASCII, dBASE and Worksheet formats; see Section 9 for details.
- System configuration changes: ability to modify Code Tables (see Section 7); configure own editor; select datums; specify coordinate working areas; see also Section 4 for details.
- All search screens now have code table lookups.
- Report and print enhancements: dBASE and Worksheet formats; set default print device; and report preview feature with single page print.

1. INTRODUCTION

This document describes the MINFILE/www and MINFILE/pc systems, their configuration and installation and additional information on MINFILE. MINFILE/www and MINFILE/pc are intended for use with the MINFILE database, which is a computerized mineral inventory of over 12,300 metallic, industrial mineral and coal occurrences in British Columbia. For further information on the use of MINFILE refer to the following supporting documents:

1. MINFILE V. 5.0 Coding Manual, June 2007, Information Circular 2007-4 now available on the Web (http://www. em.gov.bc.ca/mining/geolsurv/minfile/manuals/coding_5.0/codetoc.htm).

2. MINFILE V. 5.0 User Manual, June 2007, Information Circular 2007-5 now available on the Web (http://www.em.gov.bc.ca/mining/geolsurv/minfile/manuals/user_5.0/usertoc.htm).

2. PURPOSE OF THE MINFILE/pc SYSTEM

MINFILE/pc is a tab-driven search and report program for the IBM PC-compatible computer. The system may be used to search, sort and manipulate MINFILE data and report on the results of searches. The data can be exported for use in other programs such as word processors and plotting packages. Editing mineral occurrences is possible with the data entry part of the program. With the ability to modify MINFILE data, users are warned that this will create incompatibilities with the Corporate (B.C. Geological Survey) MINFILE Database.

The previous 4.5 version of MINFILE/pc also contained a module, designed for the Ministry's Regional Geologists to track exploration and development activity in B.C. Projects and directly link them to associated MINFILE occurrences. Note that this exploration data is not distributed. However, the system may be used to enter and track your own data.

3. PURPOSE OF THE MINFILE/www SYSTEM

MINFILE/www is an on-line tab-driven search and report program for the Internet. The system may be used to search, sort and manipulate MINFILE data and report on the results of searches. The data can be exported for use in other programs such as word processors and plotting packages. Editing mineral occurrences is possible with the MINFILE Coding Card part of the program. Users interested in data entry capabilities must first obtain a BCeID (https://www.bceid.ca/) and contact the MINFILE Team (Laura.DeGroot@gov.bc.ca) for authorized access.

Users are encouraged to obtain new data as previous versions of the data are no longer compatible with Version 5.0.

4. SYSTEM REQUIREMENTS

Minimum Hardware Requirements

- Pentium 75-megahertz (MHz) or higher processor.
- Microsoft Windows 95 or later operating system, or Microsoft Windows NT Workstation version 4.0, Service Pack 3 or later.
- For Windows 95 or Windows 98: 16 megabytes (MB) of RAM for the operating system, plus an additional 8 MB of RAM for Access.
- For Windows NT Workstation: 32 MB of RAM for the operating system, plus an additional 8 MB of RAM for Access.
- For Windows 2000 Professional: 64 MB of RAM for the operating system, plus an additional 8 MB of RAM for Access.

NOTE: Windows 2000 requires a Pentium 133 megahertz (MHz) or higher processor.

Software Requirements

- Microsoft Access 2000, XP or a later version.
- An internet connection is required to download MINFILE/pc from the website.

- Microsoft Windows 95, 98 NT, 2000 XP or later.
- WinRAR to extract the compressed *MINFILE-pc.RAR* file.

The existing MINFILE/pc program and data for the province presently occupies approximately 307 megabytes of hard disk space once downloaded and extracted.

5. DOWNLOADING MINFILE/pc

The MINFILE/pc program and data is downloadable from http://www.em.gov.bc.ca/Mining/GeolSurv/Minfile/minfpc.htm

6. CODE TABLE MAINTENANCE

The Code Table Maintenance option is only available to Ministry staff with the highest security level access.

Code tables are a very important component of table driven systems, such as MINFILE/pc and MINFILE/www. Code tables allow the flexibility to accommodate the changing needs of system users. System administration involves updating the code tables. The code tables contain information that controls various system functions, such as:

- suggesting possible values for data entry fields.
- controlling input to the data entry screens.
- allowing different users to access the system.

IMPORTANT: Modifications and deletions to the code tables can result in system inconsistencies. Since persons with limited MINFILE/pc system knowledge can inadvertently corrupt the database, please contact the Victoria MINFILE office (details on Conclusion page) to alert them of a new or possible code change.

7. GENERAL MINFILE INFORMATION AND AVAILABILITY

a) MINFILE/pc System

MINFILE/pc Version 5.0 software is downloadable (http://www.em.gov.bc.ca/mining/Geolsurv/Minfile/minregis.htm) from the Web. Version 5.0 of the User's Manual (Information Circular 2007-5) has currently been developed for download and viewing on the web. See User's Manual on the Web.

MINFILE is very interested in receiving your comments and suggestions regarding MINFILE/pc Version 5.0, its documentation, ease of installation and use, and possible improvements. After becoming familiar with the program and documentation, please take some time to write comments and send them to us. We will consider them in the development of future releases.

Comments and requests for MINFILE information, MINFILE Coding Manual, MINFILE User's Manual, MINFILE/pc or MINFILE/www should be directed to:

<div align="center">

MINFILE

</div>

BC Geological Survey
Ministry of Energy, Mines & Petroleum Resources
P.O. Box 9333 STN PROV GOV'T
VICTORIA BC CANADA V8W 9N3
Office location: 5th Floor, 1810 Blanshard Street

Contacts:

- Kirk Hancock (250) 952-0433 (E-mail: Kirk.Hancock@gov.bc.ca)

- Laura de Groot (250) 952-0387 (E-mail: Laura.DeGroot@gov.bc.ca)

- Fax: (250) 952-0381

- Our Website: http://www.em.gov.bc.ca/mining/geolsurv/minfile/

b) MINFILE Data

MINFILE is a comprehensive, computerized mineral inventory of over 12,300 metallic, industrial mineral and coal occurrences in British Columbia. The MINFILE computer database contains a unique record of each documented mineral occurrence in the province, including operating mines. Each record includes extensive detail on location; mineralogy and alteration; geology and host rocks; assay data, reserves and production records; and further references and information on any given occurrence. Included as part of each record is a variable-length text description of the geology and setting of each occurrence. The data is useful for geoscience research, mineral exploration, prospecting, land-use management and a host of related applications requiring data on the Province's mineral resources and production.

As of January 2000, 95 per cent of the total database has been updated and entered into the computer. Of this, 92 per cent or 97 of the 105 map areas have been formally released. Professional geologists constantly maintain and expand on the information which is posted daily.

c) MINFILE/www Searches

MINFILE/www is an online search site of the MINFILE database. Simple queries include MINFILE Name, Number, NTS map location, Status, Commodity, Deposit Type, Tectonic Belt, Terrane, Latitude/Longitude, Mineralogy, Deposit Character/Classification, Formal/Informal Host, Rock Type/Lithology and Stratigraphic Age. Results are reported as a table and each occurrence is linked to a Capsule Geology and Bibliography report. Each result is linked to a MapGuide window with the map centred on the occurrence. Results can be progressively queried and a list of occurrences can be saved to a file. Numerous MINFILE data sets can also be downloaded based on search results. This list or a custom list can be imported back into MINFILE/www for additional queries and extracts.

SAMPLES OF REPORTS
MINFILE User's Manual: Appendix K

Types of MINFILE Reports Available:

A. Summary Reports
- MINFILE Record Summary
- Summary Production Report
- Summary Inventory Report

B. Detailed Reports
- MINFILE Detail Report
- Production Detail Report
- Inventory Detail Report

C. MINFILE Search Results

MINFILE Record Summary

MINFILE Record Summary		
MINFILE No 082ESW046		

Print Preview   PDF   -- SELECT REPORT --   ☑ New Window
Revise MINFILE Occurrence

Inventory Report

File Created: 24-Jul-85   by GSB
Last Edit: 17-Jul-96   by KJM

SUMMARY
Summary Help ⍰

Name   MINNIE HA-HA (L.680), MINNIE-HA-HA, SAILOR (L.766), GOLDEN CROWN FR. (L.924), CARIBOO FR., CARAMELIA, CAMP MCKINNEY

Mining Division   Greenwood

Status   Prospect
Latitude   49° 06' 45" N
Longitude   119° 11' 27" W

BCGS Map
NTS Map   082E03E
UTM   11 (NAD 83)
Northing   5442273
Easting   340124

Commodities   Gold, Silver, Lead, Zinc, Copper
Tectonic Belt   Intermontane

Deposit Types   I01 : Au-quartz veins
Terrane   Okanagan

Capsule Geology

The Minnie-Ha-Ha occurrence is located at 1318 metres elevation on the southeastern slopes of Baldy Mountain, 600 metres southwest of the Cariboo-Amelia occurrence (082ESW020). The occurrence is part of the historic Camp McKinney, located 9 kilometres north-northwest of Bridesville, British Columbia.

In 1901, the Sailor and Minnie-Ha-Ha claims were amalgamated under the ownership of Minnie-Ha-Ha Gold Mining Co. Little exploration has been done on the Minnie-Ha-Ha since this time. Jan Resources Ltd. conducted an exploration program on the Teaser (Lot 1625), Minnie-Ha-Ha, Pandre (Lot 1740), Alma (Lot 1741), Sneezer (Lot 2772) and Mitch (Lot 3589) Crown and Reverted Crown grants. The program consisted of soil geochemistry and prospecting. In 1980, the Minnie-Ha-Ha claim was acquired by Nexus Resource Corporation as part of the Sailor Group. An electromagnetic and magnetometer geophysical survey were conducted in that year. In 1981, geochemical soil and geological mapping were conducted. Then in 1988, another more detailed soil and rock geochemical program was conducted.

The Minnie-Ha-Ha occurrence was developed by a 61-metre shaft with drifting at 30, 36, and 61 metre levels totalling 183 metres. On the east side of the shaft the vein is reportedly 15 to 30 centimetres wide. The west side of the shaft contains a narrow shear zone with a few quartz stringers within the footwall

shaft the vein is reportedly 15 to 30 centimetres wide. The west side of the shaft contains a narrow shear zone with a few quartz stringers within the footwall. The shaft is now caved and inaccessible. Other veins were discovered on the Minnie-Ha-Ha claim but only prospected.

The Minnie Ha-Ha occurrence lies in greenstone metavolcanic and metasedimentary rocks of the Carboniferous to Permian Anarchist Group. To the north are 'Valhalla' Jurassic-Cretaceous granitic and granodioritic rocks. Middle Jurassic granitic rocks occur to the southwest. Eocene Penticton Group volcanic and sedimentary rocks overlie locally sheared amphibolite and serpentinite bodies of the Anarchist Group to the east. For a more detailed description of the regional geology of the McKinney camp refer to the Cariboo-Amelia occurrence (082ESW020).

The Minnie-Ha-Ha occurrence is hosted by calcareous greenstone crosscut by quartz feldspar veinlets. Hostrocks are strongly bleached near the vein walls and altered to sericite, calcite and ankerite with minor secondary quartz and disseminated pyrite. Silicification of the hostrocks is also common.

Mineralization consists of minor pyrite and galena within a 15 centimetre to 1.37 metre wide quartz vein striking 280 degrees and dipping 80 degrees north. Trace chalcopyrite, sphalerite and free gold were found in dump samples in 1988. The vein is reported traceable for 15 metres on surface. Several samples taken from the Minnie-Ha-Ha dump in 1988 yielded anomalous results. The best sample, Sample CM8803, yielded 11.9 grams per tonne gold, 30.0 grams per tonne silver, 0.63 per cent lead, 0.16 per cent zinc and 0.04 per cent copper (Assessment Report 178155). Sample CM8806, a 30-centimetre chip sample taken from the Minnie-Ha-Ha shaft, yielded 4.7 grams per tonne gold, 3.3 grams per tonne silver, 0.07 per cent zinc, 0.03 per cent lead and 0.01 per cent copper (Assessment Report 178155). The vein width was 30-centimetres with a strike of 116 degrees and a dip of 81 degrees northwest. The footwall consisted of white bull quartz. The hangingwall contained chloritic partings with 5 per cent disseminated pyrite, 0.5 per cent sphalerite, trace galena and chalcopyrite.

A five stamp mill was erected and ran for three weeks during March 1900. No production records could be found. The property was abandoned later that same year. It is questionable whether pay ore was ever found (Minister of Mines Annual Report 1901, page 1151).

Bibliography

EMPR AR 1894-map after 758; *1897-606; 1899-773; 1901-1151
EMPR ASS RPT *9840, *17815, 20668, 23833
EMPR MR MAP 7 (1934)
EMPR OF 1989-5
EMPR PF (Letter and maps of work by D.W. Tully, 1979)
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GSC MAP 538A; 539A; 37-21; 15-1961; 1736A
GSC MEM 179, p. 17
GSC OF 481; 637; 1505A; 1565; 1969
Basque, G. (1992): Ghost Towns and Mining Camps of the Boundary Camp, pp. 12-22
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Summary Production Report
BC Geological Survey
Ministry of Energy, Mines & Petroleum Resources

BRITISH COLUMBIA

MINFILE Number	082ENW002	Name	BLUE HAWK	First Year	1934	Last Year	1934

	Metric		Imperial	
Mined	5	tonnes	5	tons
Milled	0	tonnes	0	tons

Recovery

Silver	560	grams	18	ounces
Gold	156	grams	5	ounces

MINFILE Number	082ENW018	Name	SILVER KING	First Year	1939	Last Year	1941

	Metric		Imperial	
Mined	244	tonnes	268	tons
Milled	0	tonnes	0	tons

Recovery

Silver	15,116	grams	486	ounces
Gold	1,618	grams	52	ounces

MINFILE Number	082ENW028	Name	KELLY	First Year	1926	Last Year	1927

	Metric		Imperial	
Mined	2	tonnes	2	tons

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BRITISH COLUMBIA

MINFILE No./Name/ Latitude/Longitude/ UTM Zone/Northing/Easting	NTS Map/Status/ Mining Division/ Deposit Type	Zone/Year/ Reference/ Comments	Tonnage/ Category	NI 43-101 Compliant	Commodity/Grade	
082ENW002 BLUE HAWK 49 59 02 N 119 31 10 W 11 (NAD 83) 5539882N 319388E	082E13E Past Producer Vernon I01:Au-quartz veins, I05:Polymetallic veins Ag-Pb-Zn+/-Au	SAMPLE 1988	0.00 t Assay/analysis	N	Silver Gold	67.9800 g/t 19.3900 g/t

Property File - Dasler P.G. (1989): Report on the Kurtis Property.

Average gold and silver values from 10 channel samples from trench #1 which assayed greater than 3.4 grams per tonne gold.

| **082ENW018** SILVER KING 49 47 49 N   119 58 08 W 11 (NAD 83) 5520284N   286349E | 082E13W Past Producer Osoyoos I01:Au-quartz veins, I05:Polymetallic veins Ag-Pb-Zn+/-Au | SAMPLE 1986 | 0.00 t Assay/analysis | N | Silver | 68.0000 g/t |

Assessment Report 15834.

Highest value from samples taken near the shaft.

| **082ENW028** KELLY 49 35 01 N   119 43 51 W 11 (NAD 83) 5495919N   302616E | 082E12E Past Producer Osoyoos I05:Polymetallic veins Ag-Pb-Zn+/-Au | SAMPLE 1906 | 0.00 t Assay/analysis | N | Silver Lead | 3428.0000 g/t 50.0000 % |

Minister of Mines Annual Report 1906, page 172.

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MINFILE Detail Report
BC Geological Survey
Ministry of Energy, Mines & Petroleum Resources

BRITISH COLUMBIA

Location/Identification

MINFILE Number:	104B 001	National Mineral Inventory Number:	104B12 Cu1
Name(s):	JOHNSON		
	JOHNSON RIVER		

Status:	Showing	Mining Division:	Liard
		Electoral District:	Bulkley Valley-Stikine
Regions:	British Columbia	Forest District:	Skeena Stikine Forest District
BCGS Map:	104B073		
NTS Map:	104B12E	UTM Zone:	09 (NAD 83)
Latitude:	56 44 10 N	Northing:	6290995
Longitude:	131 35 06 W	Easting:	341878
Elevation:	122 metres		
Location Accuracy:	Within 1KM		
Comments:	Located on the north side of the Iskut River, 4.8 kilometres east of the Johnson River mouth.		

Mineral Occurrence

Commodities:	Silver, Lead, Copper, Zinc	
Minerals:	Significant:	Tetrahedrite, Galena, Chalcopyrite, Sphalerite
	Associated:	Quartz, Pyrite
	Mineralization Age:	Unknown
Deposit	Character:	Vein
	Classification:	Epigenetic, Hydrothermal
	Type:	I05: Polymetallic veins Ag-Pb-Zn+/-Au
	Strike/Dip:	220/60W

Host Rock

Dominant Host Rock: Volcanic

Stratigraphic Age	Group	Formation	Igneous/Metamorphic/Other
Upper Triassic	Stuhini	Undefined Formation	------
Pennsylvan.-Permian	-------	-------	Stikine Assemblage

Isotopic Age	Dating Method	Material Method
------	------	------
------	------	------

Lithology: Andesitic Tuff, Clastic Sediment/Sedimentary, Greenstone

Comments: Unnamed Upper Triassic undifferentiated volcanics and sediments overlie Permian-Carboniferous volcanics and sediments.

Geological Setting

Geological Setting

Tectonic Belt:	Intermontane	Physiographic Area:	Boundary Ranges
Terrane:	Stikine		
Metamorphic Type:	Regional	Relationship:	Pre-mineralization
Grade:	Greenschist		
Comments:	Located near Coast Crystalline-Intermontane boundary.		

Inventory

Thursday, June 7, 2007   MINFILE Number: 104B 001   Page 1 of 2

Ore Zone:	SAMPLE	Year:	1948
Category:	Assay/analysis	Report On:	N
Quantity:	0 tonnes	NI 43-101:	N
Sample Type:	Grab		

Commodity	Grade
Silver	370.9000 grams per tonne
Copper	3.4300 per cent
Lead	5.0400 per cent
Zinc	1.4700 per cent

Reference: Geological Survey of Canada, Memoir 246, page 78.

Capsule Geology

Along the Iskut River and to the south, are Permian to Carboniferous greenstone to clastic sedimentary rocks of the Paleozoic Stikine Assemblage. These rocks are regionally metamorphosed to greenschist facies nearing the Coast Plutonic contact. Unconformably overlying these rocks are undifferentiated Upper Triassic andesitic volcanic to clastic sedimentary rocks that may be correlative with upper members of the Stuhini Group.

The Johnson River showing is a well defined fracture vein zone, approximately 0.3 metre wide, varying locally in width up to 3.0 metres. The fracture vein system strikes 220 degrees dipping 60 degrees northwest, and consists predominantly of quartz, with lesser galena, chalcopyrite, tetrahedrite, sphalerite and pyrite. A rep-resentative sample of the better part of the main vein assayed trace gold, 370.9 grams per tonne silver, 3.43 per cent copper, 5.04 per cent lead and 1.47 per cent zinc (Geological Survey of Canada, Memoir 246, page 78).

Bibliography

GSC MAP 9-1957; 311A; 1418A
GSC MEM *246, p. 77-78
GSC P 89-1E, pp. 145-154
Equity Preservation Corp. Compilation: Stewart-Sulphurets-Iskut, Dec. 1988, (Showing No. B8)
Date Coded: 1985/07/24   Coded By: BCGS   Field Check: N

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MINFILE Production Detail Report
BC Geological Survey
Ministry of Energy, Mines & Petroleum Resources

BRITISH COLUMBIA

MINFILE Number:	082ENE001	Name:	MCKINLEY	Status:	Past Producer

Production Year	Tonnes Mined	Tonnes Milled	Commodity	Grams Recovered	Kilograms Recovered
1949	132	132	Silver	28,397	
			Gold	62	
			Zinc		22,523
			Lead		14,737

Summary Totals

MINFILE Number:	082ENE001	Name:	MCKINLEY	Status:	Past Producer

	Metric	Imperial
Mined	132 tonnes	145 tons
Milled	132 tonnes	145 tons

Recovery:

Silver	28,397	grams	913	ounces
Gold	62	grams	2	ounces
Zinc	22,523	kilograms	49,655	pounds
Lead	14,737	kilograms	32,490	pounds

Comments:

1949   Includes 36 tonnes mined in 1948. Annual Report 1949.

Done   Unknown Zone

Inventory Detail Report

MINFILE Inventory Detail Report
BC Geological Survey
Ministry of Energy, Mines & Petroleum Resources

BRITISH COLUMBIA

MINFILE Number:	082ENE003	Name:	UNION	Status:	Past Producer

Ore Zone/ Year/Report On	Tonnage/ Category	Commodity	Grade	Reference/ Comments
DUMPS 1984 Y	16 kt Inferred	Silver Gold	65.0000 g/t 2.2000 g/t	Assessment Report 13710.
MAIN VEIN 1984 Y	7 kt Possible	Silver Gold	1858.0000 g/t 32.5000 g/t	Assessment Report 13710. Average width of 1.5 metres.
SOUTH 1984 Y	7 kt Possible	Silver Gold	294.0000 g/t 8.7000 g/t	Assessment Report 13710. Average width of 1.5 metres.

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MINFILE Number	Names	Status	Commodities	NTS Maps	Latitude Longitude (NAD 83)	Deposit Types
082ESE062	EMMA (L.591) MOUNTAIN ROSE (L.794) EMMA BLUEBELL BRAYFOGLE (L.1491) JUMBO (L.592) MINNIE MOORE (L.593) BREY FOGLE SUMMIT CAMP BLUEBELL	Past Producer Production Report	Copper, Gold, Silver, Zinc, Germanium, Molybdenum, Cobalt	082E02E	49 ° 07' 48" N 118° 32' 58" W	Cu skarn Fe skarn
082ESW046	MINNIE HA-HA (L.680) MINNIE-HA-HA SAILOR (L.766) GOLDEN CROWN FR. (L.924) CARIBOO FR. CARAMELIA CAMP MCKINNEY	Prospect Inventory Report	Gold, Silver, Lead, Zinc, Copper	082E03E	49 ° 06' 45" N 119° 11' 27" W	Au-quartz veins
082FNW048	CARNATION (L.575) MAIN MINNIEHAHA VIOLET (L.3168) FOOTWALL MINNIE HA HA VIOLET FR. (L.3170)	Past Producer Production Report	Silver, Lead, Zinc, Gold	082F14W	49 ° 57' 59" N 117° 16' 12" W	Polymetallic veins Ag-Pb-Zn+/-Au
082FSW188	HARRIET MINNIE M TULIP DEW DROP MONITOR LOT 15494	Past Producer Production Report	Gold, Silver	082F06W	49 ° 18' 48" N 117° 21' 24" W	Au-quartz veins
082GNW045	EMILY-TIGER EHLINGER MINNIE M	Past Producer Production Report	Lead, Silver, Copper, Gold	082G13E	49 ° 48' 10" N 115° 36' 59" W	Polymetallic veins Ag-Pb-Zn+/-Au

| 082KNE009 | RUTH-VERMONT RUTH VERMONT RUTH (L.418) CHARLOTTE (L.405) MINNIE (L.419) VERMONT (L.8123) PINE TREE NELSON BLACKSMITH SOUTH NORTH SHEBA (L.8124) CLEOPATRA (L.8122) RUTH FRACTION (L.8125) | Past Producer Production Report Inventory Report | Silver, Lead, Zinc, Copper, Gold, Cadmium, Tungsten | 082K15W | 50 ° 56' 51" N 116° 58' 45" W | Polymetallic veins Ag-Pb-Zn+/-Au Sedimentary exhalative Zn-Pb-Ag |