APPENDIX II

RESOURCE INVENTORIES

II.1 Resource Inventory Summary
II.2 Timber Inventory Statistics
II.3 TFL 23 Inventory Audit Report (1995)
II.4 Non-Timber Inventory Statistics

- **Wildlife**
- **Mineral Prospects**

APPENDIX II

II.1 Resource Inventory Summary

Resource Inventory Summary for TFL 23
Management Plan #9

Inventory Type	Description/ Comments	Standards/ Specifications	Data Source	Data Format	Mapping Scale	Completion Status	Acceptance Date	Authority	Future Updates
BEO	Biodiversity Emphasis Options for Arrow Forest District	KBLUP IS	Derived from BEC & LU mapping	Digital ArcInfo	1:50,000	Complete			None scheduled
BEO	Biodiversity Emphasis Options for Columbia Forest District	MAC	MoF – Columbia	Digital ArcInfo	1:50,000	Completed 1997			None scheduled
BEC	Biogeoclimatic zone, sub-zone and variant including natural disturbance types	MOF	MOF Nelson Forest Region and Research Branch	Digital ArcInfo	1:50,000	Completed 01/1998			None scheduled
Biogeoclimatic Zones			MoF Nelson	Digital ArcInfo	1:250,000	02/23/1998	02/23/1998	MoF Region	
Cadastre			MOF	Digital ArcInfo	1:20,000	1991/1992			None scheduled
Caribou habitat			Nanuq	Digital ArcInfo	1:250,000	Completed 10/31/1997	Draft		Ongoing
Caribou habitat		KBLUP	MoELP Nelson	Digital ArcInfo	1:250,000	06/1997	06/1997	IAMC	Ongoing
Caribou habitat		MAC	MoF - Columbia	Digital ArcInfo					Ongoing
Community watersheds			MoELP Nelson	Digital ArcInfo	1:20,000	Received 01/01/1998	01/01/1998	MELP	None scheduled
Domestic watersheds			MoELP Nelson	Digital ArcInfo	1:20,000	Received 01/01/1998	01/01/1998	MELP	None scheduled
Environmentally Sensitive Areas		MOF	Timberline	Digital ArcInfo	1:20,000	Completed 08/1991			None scheduled
Fisheries			Wildstone, Ingersol	Digital ArcInfo	1:20,000	30% complete 12/31/97			Ongoing
Forest Cover			Pope & Talbot	Digital ArcInfo					Ongoing
Forest Health			MOF	Digital Ustn					Ongoing
Grizzly management areas			MoELP Nelson	Digital ArcInfo	1:250,000	Received 01/01/1998			Ongoing
Grizzly management areas			Nanuq	Digital ArcInfo	1:20,000	Completed 09/25/1997			Ongoing
Guides			MoELP Nelson	Digital ArcInfo	1:250,000				Ongoing
Landscape Units	Arrow Forest District	Digitized to TRIM double line watter	LU's defined by MOF and	Digital ArcInfo	1:250,000	Received 02/01/1998	04/08/1998	MoF District Manager	Ongoing

Inventory Type	Description/ Comments	Standards/ Specifications	Data Source	Data Format	Mapping Scale	Completion Status	Acceptance Date	Authority	Future Updates
		features and ridge contours.	licensees.						
Landscape Units	Draft	MAC	MoF - Columbia	Digital ArcInfo	1:250,000	1996/1997	Draft	MAC	Ongoing
NDT	Natural Disturbance Types	Biodiversity guidebook	MOF	Digital ArcInfo	1:50,000				Ongoing
Old Growth Management Areas	Proposed		MOF/Pope & Talbot						
Operability			Pope & Talbot	Digital ArcInfo	1:20,000	07/30/1997	07/30/1997	MoF District	MWP #10
Parks - Provincial			MoELP Nelson	Digital ArcInfo	1:32,000	1956			None scheduled
Parks - Federal			MoELP Nelson	Digital ArcInfo	1:32,000	1956			None scheduled
Range									
Recreation & Landscape			Pope & Talbot	Digital ArcInfo	1:20,000	Completed 02/01/1994	05/27/1994	MoF Region	09/30/1998
Visual Landscape			Timberline	Digital ArcInfo	1:50,000	Completed 04/01/1998	10/16/1998	MoF Region	None scheduled
Recreation Features			Timberline	Digital ArcInfo	1:50,000	Completed 04/01/1998	10/16/1998	MoF Region	None scheduled
Recreation Opportunities Specturm			Timberline	Digital ArcInfo	1:50,000	Completed 04/01/1998	10/16/1998	MoF Region	None scheduled
Riparian buffers			Pope & Talbot	Digital ArcInfo	1:20,000	Generated 02/19/1998			Ongoing
Riparian Classification			Pope & Talbot	Digital ArcInfo	1:20,000	12/30/1997	12/30/1997	MELP	Ongoing
Roads			Pope & Talbot	Digital ArcInfo	1:20,000				Ongoing
Slope Classes		TRIM	MoELP	Digital ArcInfo					None scheduled
Terrain Hazard	Terrain survey intensity level 'D' (TSIL 'D')		Terratech	Digital ArcInfo	1:20,000	Completed 09/30/1995	03/30/1996	MoF District	None scheduled
Ungulate winter range		MAC	MoF - Columbia	Digital ArcInfo	1:250,000	06/1997	06/30/1997	MELP	Ongoing
Ungulate winter range			KBLUP	Digital ArcInfo	1:50,000	Received 06/31/1997	1991	MELP	Ongoing
Visual Landscape		Partial Retention	Pope & Talbot	Digital ArcInfo		Completed 02/01/1994			Ongoing
Visual Landscape		Class II and III	KBLUP	Digital ArcInfo					Ongoing

APPENDIX II

11.2 Timber Inventory Statistics

APPENDIX II

RESOURCE INVENTORIES

II.2 Timber Inventory Statistics

(Information to follow)

APPENDIX II

II.3 Resource Inventory Branch
TFL 23 Inventory Audit Report (1995)

Province of
British Columbia

Ministry of
Forests

Resouces Inve[illegible]y Branch
722 Johnson [illegible]
Victoria, British Columbia
V8W 3E7
Tel: (604) 387-1814 Fax (604) 387-5999

To → Keith Tudor
Looks OK !
Thanks

File: 13380-30/TFL23

January 2, 1996

POPE & TALBOT LTD.
RECEIVED
JAN - 4 1996
NAKUSP B.C.

From → D.A. Lang
Pope and Talbot Ltd.
Arrow Lakes Timber Divison
P.O. Box 2000
Nakusp, British Columbia
V0G 1R0
Canada

Dear D.A. Lang:

Please find enclosed a final "draft" copy of the inventory audit report for TFL 23. Would you please review this report and indicate any "significant" changes by 12 January 1996. I hope to release these reports to the public by the end of January.

Once again, thank you for your help on this project.

Yours truly,

Edward Jorey

for Keith Tudor
Statistical Audit Forester
Inventory Audit Program

Enclosure: TFL 23 Inventory Audit Report

Province of
British Columbia

Ministry of
Forests

Resources Inventory Branch
722 Johnson Street
Victoria, B.C., British Columbia
V8W 3E7
Tel: 387-1814 Fax: 387-5999

October 10, 1995

Doug Lang
Pope & Talbot Ltd.
Arrow Lakes Timber Division
P.O. Box 2000
Nakusp, BC, V0G 1R0

Dear Doug:

Please find enclosed a draft copy of the inventory audit report for Pope & Talbot Ltd. TFL 23. Would you please review this document and reply with any comments before Oct. 20, 1995. Once again, may I thank you and your staff for all your assistance with this project.

Sincerely,

for Keith Tudor
Statistical Audit Forester
Inventory Audit Program

RESOURCES INVENTORY BRANCH

CONFIDENTIAL

TFL 23 inventory audit

Introduction

An inventory is conducted by the licensee of each Tree Farm Licence (TFL) in British Columbia every 10 to 30 years—using standards and procedures that are approved by the Ministry of Forests—with regular updates to reflect changes in the timber volume due to growth and depletions.

This report presents the results of an inventory audit performed within TFL 23. Managed by Pope & Talbot Limited, TFL 23 covers an area of approximately 551 302 hectares in the Nelson Timber Supply Area (TSA). In April 1992, Pope & Talbot Limited acquired the assets of Westar Timber Ltd's southern operations, including the Castlegar sawmill and a major portion of the Arrow Lakes TFL 23. The former TFL 23 area north of Revelstoke became the new Selkirk TFL 55 held by Westar Timber Ltd., while the larger area south of Revelstoke became the new Arrow Lakes TFL held by Pope & Talbot Ltd. The geographic centre of this TFL is located approximately 120 km north of Nelson in the Nelson Forest Region.

Background

It is often asked, "How accurate is the current inventory?" To answer this important question, the Ministry of Forests has developed an inventory audit methodology specifically designed to test the overall accuracy of estimates of the total standing volume in each timber supply area.

This inventory audit methodology entails sampling three primary components of the inventory: mature, immature, and non-forested stands.

The results of this inventory audit will be used in setting priorities for future inventory activities. They may also be used in the timber supply planning process, in sensitivity analyses, or to aid the chief forester in assessing the uncertainty of mature timber volumes in the annual allowable cut (AAC).

Methods

Current inventory

There are 35 TFLs in British Columbia, varying in size from approximately 8 500 ha to just over 1 000 000 ha. Inventories are conducted on each TFL by the licensee through a multistage process. Although the methodology varies within each TFL, all standards must be approved by the Ministry of Forests. New standards currently under development will ensure a consistent minimum level of standard for all TFLs. Generally, polygons (a boundary drawn around a forest stand of similar characteristics) are first delineated from 1:15 000 or 1:10 000 scale aerial photographs. Data are then collected by photo-interpretation on a number of attributes for each polygon. These attributes generally include species composition, stand height, age, and crown closure. Timber volume is then estimated indirectly using the photo-interpreted variables and an empirical yield model. Other approaches to volume estimation, approved by the Ministry of Forests, may also be used.

To keep estimates current, inventories are regularly updated to account for forest growth, and for depletions due to harvesting, fire losses, and the impact of insects and disease. Empirical yield models, such as the Ministry of Forests Variable Density Yield Prediction (VDYP) computer model, are used to update the inventory for forest growth. Field visits, satellite imagery and aerial photographs may be used to update the inventory for depletion.

Inventory audit procedures

The inventory audit tests three components of the current inventory. The first component is the mature forested areas (forest stands greater than 60 years of age). The inventory audit will test the accuracy of the mature timber volume. The second component tested is immature stands (less than 60 years of age but greater than the silvicultural classification of free growing). The audit will test the accuracy of the site growth potential (site index) assignment for these stands. The third audit test is of the photo-classification accuracy of the non-forested classification component of the inventory (areas such as lakes, gravel pits and alpine meadows).

Mature component assessment criteria

Testing the mature component of the inventory will establish the difference between the existing licensee's inventory estimate of the mature volume for the TFL (called the *inventory volume*), and the new estimate obtained from the Ministry of Forests audit samples (called the *audit volume*).

The difference between these two estimates is total bias. A statistical test is conducted on this bias to determine if the difference between the two estimates is statistically significant 19 times out of 20. This test will establish whether there are detectable differences between the audit sample volume estimate and the inventory volume

estimate.

If the total bias is found to be statistically significant, further analyses are conducted to determine if the specific source of bias within the inventory is one of the following:

- *classification bias*: This is caused by incorrectly estimating the polygon attributes. This is the main potential source of bias; and
- *model bias*: This is caused by poor prediction from the yield model, which was developed for large areas of the province and was not designed for specific management units.

The analyses to determine the source of bias use *ground attribute volume*. This is calculated from audit sample attributes (stock and stand table estimates of species composition and stocking, and ground-based averages of top height and age), along with crown closure taken from the original map label, using the yield prediction model. The difference between the ground attribute volume estimate and the audit volume estimate is the bias associated with the yield model. The difference between the audit volume estimate and the inventory volume estimate not accounted for by the model bias is the bias associated with the inventory classification attributes. Once the source is identified, further analyses may be done on the attributes or the model itself.

Immature component assessment criteria

Accuracy of the inventory classification for immature stands was tested by examining the site index assignment. Since the immature forest stand site index provides an estimate of site productivity, its accuracy will affect the projection of long-term harvest levels.

Data gathered is examined to determine how closely individual samples match inventory indices for each location, and to explore possible trends. Since the magnitude of bias associated with the sampling and assessment process is unknown, the results and their interpretation should be used with caution.

Non-forested component assessment criteria

The audit test for the non-forest component of the inventory will assess the accuracy of the non-forest classification label assignment. An air photo interpreter certified by the ministry will compare the non-forest inventory classification label to a suitably-scaled forest cover aerial photograph. Classification accuracy is rated from a point scoring scheme to determine an overall accuracy percentage. The acceptance criteria for this test is 85% or higher.

TFL 23 audit sampling procedures

The TFL 23 sample is based on files updated from the most recent 1993 inventory. A list of all polygons identified on these files was produced and sorted on a number of stand characteristics (site quality, age, and species group). Polygons were systematically selected from this list by a process designed to produce a representative sample of the TFL.

For the mature forested component of the inventory audit, a random sample of 50 forested polygons from both the operable and inoperable forested land base were selected for sampling.

Up to four full-measure prism plots, and five count plots, were established within each of the 50 sample polygons. The plots were located systematically, using a square grid and a random start point. The grid interval distance varied with polygon size. To reduce sample costs for large or irregular polygons, only a randomly selected portion of the polygon was sampled. In total, about 200 full-measure and 250 count plots were established. Field data collection and compilation followed Ministry of Forests cruising and cruise compilation procedures. The objective is to obtain audit volumes that are comparable (in terms of utilization limits and merchantability definitions) to the inventory volumes that are produced by the licensee.

Since the licensee used the VDYP as their yield model, volumes were compared against this system. The VDYP system produces net merchantable volume per hectare defined as stem volume inside bark of all live trees excluding a 10 cm diameter inside-bark top, a 30 cm high stump, and decay (as estimated from Ministry loss factors). Dead potential and veteran trees are not included in the VDYP system volume estimates. This volume is calculated for two utilization standards: all live trees 12.5+ cm dbh, and 17.5+ cm dbh.

The audit volume estimates were then compared to the inventory volumes to test the validity of the current inventory. Ratios of the audit volume to inventory volume were calculated to test for significant differences—how well the inventory estimate corresponds to the audit volume estimate on a sample by sample basis—was assessed by measuring their statistical correlation. The data was then post-stratified to detect trends related to the operable and inoperable forested land base distribution of the sampled polygons.

From the immature forested component, a random sample of 20 polygons were selected for sampling. Up to six inventory ground calls were established within each of the 20 sample polygons. The plots were located along a single transect line that was considered representative of the site productivity (site index) of the stand. In total, approximately 120 ground calls were established. Field data collection followed the standard Ministry of Forests Inventory ground call procedures. The location of the sample transect was subjective. Since the magnitude of bias caused by this process is unknown, the reported results and their interpretations should be used with caution.

For the audit of the non-forested component of the

inventory, a random sample of 30 non-forested polygons were selected. Standard Ministry of Forests inventory air photo classification techniques were used to compare the 30 non-forest polygon labels to corresponding air photo checks.

Inventory audit results

Analysis of mature volumes

The results of the inventory audit for mature volume statistical analyses at the 12.5+ cm dbh utilization limit for the total forested land base are given in Table 1.

	Audit Volume Estimate	Inventory Volume Estimate
Number of Samples	50	50
Mean (m^3/ha)	339	362
Coefficient of variation (%)	47	44
Standard error	22.36	22.41
Sampling Error (%)	13.3	12.5
95% Confidence Interval (m^3/ha)	294-384	317-407

Correlation coefficient r = 0.394
Ratio of means (audit/inventory volume estimates) = 0.94

Table 1: Statistics for the audit volume and inventory volume estimates at 12.5+ cm dbh utilization for TFL 23.

audit volume estimate	294	339	384	
inventory volume estimate	317	362		407

Table 2: Bar graph representation of 95% confidence intervals in m^3/ha

The calculated correlation coefficient of 0.394 between the audit and the inventory volume indicates a moderate but statistically significant relationship for the individual samples. There is a 23 m^3/ha difference between the means of the inventory estimate for mature volume (362 m^3/ha) and the audit estimate (339 m^3/ha). This difference is not statistically significant, 19 times out of 20.

Since there was no statistical difference between the two estimates the ground attribute volume was not calculated.

Analysis of operable and inoperable volumes

For the purposes of providing audit results that are applicable to the timber supply planning process, the audit samples were post-stratified on the basis of operability. Of the 50 samples, 15 were within the inoperable forested land base. It was concluded that due to the restrictive nature of conclusions based on samples of this size, inoperable forested land base volume statistics for this TFL would not be included in Table 3.

	Operable	
	Audit Volume Estimates	Inventory Volume Estimates
Number of Samples	35	35
Mean (m^3/ha)	343	365
Coefficient of variation (%)	50	45
Standard Error	28.8	27.71
Sampling Error (%)	17.1	15.4
95% Confidence Interval	284-401	309-422

Operable ratio of means = 0.94

Table 3: Statistics for the operable audit and inventory volume estimates at 12.5+ cm dbh utilization for TFL 23.

For the 35 samples located within the operable forested land base, the mean audit volume was 343 m^3/ha and the corresponding inventory volume was 365 m^3/ha. The difference of 22 m^3/ha between the mean audit volume and the mean inventory volume in the operable area was not statistically significant. The sample size of 15 in the inoperable forested land base was insufficient to allow any meaningful comparisons to be made.

Analysis of immature inventory classification

Out of 20 stands sampled in the field, two were either too young or the data was unreliable to accurately assess a site index. Of the remaining 18 stands, the inventory correctly identified site index within ± 3 m for seven stands. The inventory site index was more that 3 m lower than the audit index for seven stands and more than 3 m higher in four stands.

Analysis of non-forested inventory classification

Thirty stands classified as non-forest were assessed for their inventory assignment accuracy. The resulting score was 92 percent.

Discussion and conclusions

The objective of the inventory audit in TFL 23 was to assess the overall accuracy of the current 1993 inventory. The mature, immature and non-forested components were tested.

The results of the audit for the mature component of the inventory suggest that the inventory is statistically acceptable. Subsequent analysis of post-stratified data also show a similar level of acceptability in the operable forested land base.

Audit results for the immature component of the inventory suggests that site index assignment may not be accurate in young stands. However, since the sampling design for the immature component of the audit was biased, these results must be viewed with caution.

The audit assessment of the non-forest classification in this TFL found it to be within provincial standards.

Glossary

accuracy: A measure of the closeness of an estimate to the true value.

analysis unit: The basic building block around which inventory data and other information are assembled for use in forest planning models. Analysis units represent the general level of aggregation, or detail, at which a timber supply analysis is carried out. They are normally defined by tree species and site qualities.

annual allowable cut: The rate of timber harvesting specified for an area of land.

bias: The quality of a measurement device or procedures that tends to result in a misrepresentation of what is being measured in a particular direction.

coefficient of variation: A relative measure of the variation of the population calculated as the ratio between the standard deviation and the mean value.

confidence interval: The range of values within which the population parameter is expected to lie.

confidence level: The estimated probability that a population parameter lies within a given confidence interval.

correlation coefficient: A measure of the relationship between two variables. A value of 0 for the correlation coefficient indicates a random relationship whereas a value of ±1 indicates a perfect positive or negative linear correspondence.

diameter at breast height (dbh): The stem diameter (outside-bark) of a tree measured at breast height to the nearest millimetre.

field visitations: Ground level field procedures designed to provide physical verification of polygon inventory attributes.

free growing (crop): A crop of healthy trees, the growth of which is not impeded by competition from plants, shrubs or other trees.

inoperable: Refers to areas having merchantable timber that cannot be harvested economically using current harvesting technology because of some physical barrier (such as a hanging valley), and to areas containing small patches of overmature timber surrounded by large areas of young stands.

mean: The average value of a set of observations.

pre-inventory analyses: Pre-inventory analyses are inventory activities to evaluate the existing forest inventory as the basis for deciding whether to re-inventory or update the current inventory, and to document the existing inventory, maps, and photos to support the execution of the reinventory or update if required.

ratio estimate: The ratio between two different estimates.

representative: The quality of a sample having the same characteristics as the population from which it is selected.

sampling: The process of selecting observations.

sampling error: The error attributed to sampling procedures.

significant difference: An expression used in reference to the results of a statistical test that determines the unlikelihood that the observed result is a product of sampling procedures only.

site index: A measure of site productivity. Site indices are based on tree height as a function of stand age and are usually expressed graphically as site index curves. A number of site index curves have been developed for British Columbia's major commercial tree species.

standard error: An expression of the absolute variability of an estimate.

standard deviation: A measure of the variation of the population.

taper equations: Equations which recreate the shape of trees in a computer, and are used to estimate tree volume.

timber supply analysis: The technical process of amalgamating land management information into computer systems that predict the amount of timber available for harvest over given time periods.

timber supply area: An integrated resource management unit established in accordance with section 6 of the *Forest Act*.

tree farm license: An integrated resource management unit established in accordance with section 28 of the *Forest Act*.

For more information

For more information or to obtain other inventory audit reports, contact: Director, Resources Inventory Branch, 722 Johnson Street, Victoria, B.C., Canada V8W 3E7, 387-1314, fax 387-5999, or e-mail to RIB@mfor01.for.bc.ca(??).

APPENDIX II

II.4 Non-timber Inventory Statistics

Wildlife

British Columbia Ministry of Environment, Lands & Parks

PROVINCIAL LIST STATUS AND CDC RANKS

All rare entities tracked by the B.C. Conservation Data Centre have been assigned **provincial** and **global** rarity ranks. Most entities also have a designation on the Ministry of Environment's Red or Blue list. Definitions of the Ministry's Red and Blue lists, and the relationship between list status and the CDC provincial rarity rank ("S" rank) are explained below.

I. PROVINCIAL LIST STATUS

RED LIST:
Includes any indigenous species or subspecies (taxa) considered to be Extirpated, Endangered, or Threatened in British Columbia. Extirpated taxa no longer exist in the wild in British Columbia, but do occur elsewhere. Endangered taxa are facing imminent extirpation or extinction. Threatened taxa are likely to become endangered if limiting factors are not reversed. Red-listed taxa include those that have been, or are being, evaluated for these designations.

BLUE LIST:
Includes any indigenous species or subspecies (taxa) considered to be Vulnerable in British Columbia. Vulnerable taxa are of special concern because of characteristics that make them particularly sensitive to human activities or natural events. Blue-listed taxa are at risk, but are not Extirpated, Endangered or Threatened.

YELLOW LIST:
Any indigenous species or subspecies (taxa) which is not at risk in British Columbia. The CDC tracks some Yellow listed taxa which are vulnerable during times of seasonal concentration (eg breeding colonies).

EXCLUDED TAXA:
Marine reptiles and marine mammals are not within the Ministry of Environment's mandate, but CDC does track rare taxa in these groups. They are assigned global and provincial rarity ranks, and their List status appears in CDC reports as **'N/A'** (not applicable).

II. DERIVATION OF LIST STATUS FROM CDC "S" RANK (PROVINCIAL RANK)

	RED LIST				BLUE LIST			
ANIMALS:	S1	S1S2	S2	S2?	S2S3	S3	S3?	S
PLANTS:	S1	S2			S1?	S2S3		
PLANT COMMUNITIES:	S1	S1S2	S2	S2?	S2S3	S3	S3?	

TOP OF PAGE

British Columbia Ministry of Environment, Lands & Parks

BC CDC PROVINCIAL RANK DEFINITIONS

The Provincial or Subnational Rank reflects the conservation status of a species from a local perspective, characterizing the relative rarity or imperilment of the species within the province of British Columbia.
For discussion of factors used in determining species rarity ranks, see: Harcombe, A., Bill Harper, Sydney Cannings, David Fraser and William T. Munro. 1994. Terms of endangerment. Pages 11-28 *in* Harding, Lee E. and Emily McCullum, eds. Biodiversity in British Columbia: our changing environment. Environ. Canada, Can. Wildl. Serv., Pacific and Yukon Region, Vancouver. 425 pp.

BASIC PROVINCIAL RANKS

SX = Presumed Extirpated
Believed to be extirpated. Not located despite intensive searches and virtually no likelihood that it will be rediscovered.

SH = Possibly Extirpated
Known only from historical occurrences. Still some hope of rediscovery.

S1 = Critically Imperiled
Critically imperiled provincially because of extreme rarity or because of some factor(s) making it especially vulnerable to extinction. Typically 5 or fewer occurrences or very few remaining individuals (<1,000).

S2 = Imperiled
Imperiled provincially because of extreme rarity or because of some factor(s) making it especially vulnerable to extinction. Typically 6 to 20 occurrences or few remaining individuals (1,000 to 3,000).

S3 = Vulnerable
Vulnerable provincially either because very rare and local throughout its range, found only in a restricted range (even if abundant at some locations) , or because of other factors making it vulnerable to extinction. Typically 21 to 100 occurrences or between 3,000 and 10,000 individuals

S4 = Apparently Secure
Uncommon but not rare, and usually widespread. Possibly cause for long-term concern. Typically more than 100 occurrences provincially or more than 10,000 individuals.

S5 = Secure
Common, typically widespread and abundant.

VARIANT PROVINCIAL RANKS

S#S# = Range Rank
A numeric range rank (e.g., S2S3) is used to indicate uncertainty about the exact status of a taxon.

(To obtain a copy of this list, please print from your web browser)

B.C. Conservation Data Centre: Rare Vertebrate Animal Tracking List
Arrow Forest District (FD # 55)
March 10, 1997

SCIENTIFIC NAME	COMMON NAME	GLOBAL RANK	PROVINCIAL RANK
***** BIRDS**			
AERONAUTES SAXATALIS	WHITE-THROATED SWIFT	G5	S3
ARDEA HERODIAS	GREAT BLUE HERON	G5	S3S4B,SZN
ASIO FLAMMEUS	SHORT-EARED OWL	G5	S2N,S3B
BOTAURUS LENTIGINOSUS	AMERICAN BITTERN	G4	S3
CATHARTES AURA	TURKEY VULTURE	G5	S3
CATHERPES MEXICANUS	CANYON WREN	G5	S3
DOLICHONYX ORYZIVORUS	BOBOLINK	G5	S3
FALCO MEXICANUS	PRAIRIE FALCON	G4G5	S2
HALIAEETUS LEUCOCEPHALUS	BALD EAGLE	G4	S4
MELANERPES LEWIS	LEWIS' WOODPECKER	G5	S3
SPHYRAPICUS THYROIDEUS THYROIDEUS	WILLIAMSON'S SAPSUCKER, THYROIDEUS SUBSPECIES	G5TU	S3
***** FRESHWATER FISH**			
ACIPENSER TRANSMONTANUS POP 2	WHITE STURGEON (COLUMBIA RIVER POPULATION)	G4T?Q	S1
COTTUS BAIRDI	MOTTLED SCULPIN	G5	S3
COTTUS CONFUSUS	SHORTHEAD SCULPIN	G5	S3
RHINICHTHYS UMATILLA	UMATILLA DACE	G4	S2
SALVELINUS CONFLUENTUS	BULL TROUT	G3	S3
***** MAMMALS**			
GULO GULO LUSCUS	WOLVERINE, LUSCUS SUBSPECIES	G4T4	S3S4
MARTES PENNANTI	FISHER	G5	S3S4
OVIS CANADENSIS CALIFORNIANA	CALIFORNIA BIGHORN SHEEP	G4T4	S3
OVIS CANADENSIS CANADENSIS	ROCKY MOUNTAIN BIGHORN SHEEP	G5T4T5	S3
PLECOTUS TOWNSENDII	TOWNSEND'S BIG-EARED BAT	G4	S2S3
RANGIFER TARANDUS POP 1	WOODLAND CARIBOU, SOUTHERN POPULATION	G5T2T3Q	S2S3
TAXIDEA TAXUS	BADGER	G5	S3
URSUS ARCTOS	GRIZZLY BEAR	G4	S3
***** REPTILES**			
CHARINA BOTTAE	RUBBER BOA	G5	S3S4
CHRYSEMYS PICTA	PAINTED TURTLE	G5	S3S4
CROTALUS VIRIDIS	WESTERN RATTLESNAKE	G5	S3

27 TAXA LISTED

NOTE: The status and distribution of rare species and plant communities is regularly reviewed and updated.
If your copy of this list is more than 3 months old, please visit the BC CDC site to check for a more current copy.

SU = Unrankable
Currently unrankable due to lack of available information about status or trends.

S? = Unranked
Provincial rank not yet assessed.

HYB = Hybrid

RANK QUALIFIERS

? = Inexact numeric rank
Denotes inexact numeric rank.

Q = Questionable taxonomy
Taxonomic status is questionable; numeric rank may change with taxonomy.

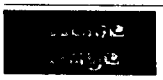
C = Captive or cultivated only
Taxon at present is extant only in captivity or cultivation, or as a reintroduced population not yet established.

B = Breeding
The associated rank refers to breeding occurrences of mobile animals.

N = Non-breeding
The associated rank refers to non-breeding occurrences of mobile animals.

INTRASPECIFIC TAXON RANKS

T = Infraspecific Taxon (trinomial) The status of infraspecific taxa (subspecies or varieties) are indicated by a "T-rank" following the species' provincial rank. Rules for assigning T ranks follow the same principles outlined above. For example, the provincial rank of a critically imperiled subspecies of an otherwise widespread and common species would be G5T1.



TOP OF PAGE

(To obtain a copy of this list, please print from your web browser in landscape format)

B.C. Conservation Data Centre: Rare Plant Community Tracking List
Revelstoke Forest District (FD # 54)
June 10, 1996

SCIENTIFIC NAME	COMMON NAME	H R
ABIES LASIOCARPA - VACCINIUM MEMBRANACEUM -XEROPHYLLUM TENAX	SUBALPINE FIR - BLACK HUCKLEBERRY - BEAR-GRASS	E E
THUJA PLICATA - OPLOPANAX HORRIDUS - EQUISETUM ARVENSE	WESTERN REDCEDAR/HYBRID WHITE SPRUCE - DEVIL'S CLUB - HORSETAIL	I

2 COMMUNITIES LISTED

***BGC site series as defined by Ministry of Forests "Field Guide to Site Identificat for this Forest Region.**

NOTE: The status and distribution of rare species and plant communities is regularly reviewed and updated.
If your copy of this list is more than 3 months old, please visit the BC CDC site to check for a more current copy.

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B.C. Conservation Data Centre: Rare Vascular Plant Tracking List
Revelstoke Forest District (FD # 54)
November 12, 1996

SCIENTIFIC NAME	COMMON NAME	GLOBAL RANK	PROVINCIAL RANK
*** FERNS AND ALLIES			
CRYPTOGRAMMA CASCADENSIS	CASCADE PARSLEY FERN	G5	S1?
DRYOPTERIS CRISTATA	CRESTED WOOD FERN	G5	S2S3
*** DICOTS			
ARABIS HIRSUTA VAR HIRSUTA	HAIRY ROCKCRESS	G5T5	S1?
DELPHINIUM BICOLOR	MONTANA LARKSPUR	G4G5	S2S3
EPILOBIUM LEPTOCARPUM	SMALL-FLOWERED WILLOWHERB	G5	S2S3
HYPERICUM SCOULERI SSP NORTONIAE	WESTERN ST. JOHN'S-WORT	G5T?	S2S3
SCROPHULARIA LANCEOLATA	LANCE-LEAVED FIGWORT	G5	S1?
SIDALCEA OREGANA VAR PROCERA	OREGON CHECKER-MALLOW	G5T4	S1
TRIFOLIUM CYATHIFERUM	CUP CLOVER	G4	S1
*** MONOCOTS			
CAREX PEDUNCULATA	PEDUNCLED SEDGE	G5	S1?

10 TAXA LISTED

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B.C. Conservation Data Centre: Rare Vertebrate Animal Tracking List
Revelstoke Forest District (FD # 54)
June 10, 1996

SCIENTIFIC NAME	COMMON NAME	GLOBAL RANK	PROVINCIAL RANK
hr>			
*** BIRDS			
ARDEA HERODIAS	GREAT BLUE HERON	G5	S3S4B,SZN
ASIO FLAMMEUS	SHORT-EARED OWL	G5	S2N,S3B
BOTAURUS LENTIGINOSUS	AMERICAN BITTERN	G4	S3
HALIAEETUS LEUCOCEPHALUS	BALD EAGLE	G4	S4
*** FRESHWATER FISH			
ACIPENSER TRANSMONTANUS POP 2	WHITE STURGEON (COLUMBIA RIVER POPULATION)	G4T?Q	S1
SALVELINUS CONFLUENTUS	BULL TROUT	G3	S3
*** MAMMALS			
GULO GULO LUSCUS	WOLVERINE, LUSCUS SUBSPECIES	G4T4	S3S4
MARTES PENNANTI	FISHER	G5	S3S4
MYOTIS SEPTENTRIONALIS	NORTHERN LONG-EARED MYOTIS	G4	S1S3
RANGIFER TARANDUS POP 1	WOODLAND CARIBOU, SOUTHERN POPULATION	G5T2T3Q	S2S3
URSUS ARCTOS	GRIZZLY BEAR	G4	S3

11 TAXA LISTED

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B.C. Conservation Data Centre: Rare Plant Community Tracking List
Arrow Forest District (FD # 55)
June 10, 1996

SCIENTIFIC NAME	COMMON NAME	H R
ABIES LASIOCARPA - VACCINIUM MEMBRANACEUM -XEROPHYLLUM TENAX	SUBALPINE FIR - BLACK HUCKLEBERRY - BEAR-GRASS	
THUJA PLICATA - OPLOPANAX HORRIDUS - EQUISETUM ARVENSE	WESTERN REDCEDAR/HYBRID WHITE SPRUCE - DEVIL'S CLUB - HORSETAIL	I

2 COMMUNITIES LISTED

***BGC site series as defined by Ministry of Forests "Field Guide to Site Identificat for this Forest Region.**

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B.C. Conservation Data Centre: Rare Vascular Plant Tracking List
Arrow Forest District (FD # 55)
November 12, 1996

SCIENTIFIC NAME	COMMON NAME	GLOBAL RANK	PROVINCIAL RANK
*** FERNS AND ALLIES			
CHEILANTHES GRACILLIMA	LACE FERN	G4G5	S2S3
DRYOPTERIS CRISTATA	CRESTED WOOD FERN	G5	S2S3
*** DICOTS			
AGASTACHE URTICIFOLIA	NETTLE-LEAVED GIANT-HYSSOP	G4G5	S2
ARABIS HOLBOELLII VAR PINETORUM	HOLBOELL'S ROCKCRESS	G5T?	S1?
ARNICA LONGIFOLIA	SEEP-SPRING ARNICA	G5	S1?
ASTER ASCENDENS	LONG-LEAVED ASTER	G5	S1?
ASTRAGALUS MICROCYSTIS	LEAST BLADDERY MILK-VETCH	G5	S1
CASTILLEJA GRACILLIMA	SLENDER PAINTBRUSH	G3G4	S2S3
CLARKIA RHOMBOIDEA	COMMON CLARKIA	G4	S1?
COREOPSIS ATKINSONIANA	ATKINSON'S COREOPSIS	G5	S1
CREPIS OCCIDENTALIS SSP PUMILA	WESTERN HAWKSBEARD	G5T?	S1
DICENTRA UNIFLORA	STEER'S HEAD	G4?	S1?
EPILOBIUM FOLIOSUM	FOLIOSE WILLOWHERB	G5	S2S3
EPILOBIUM GLABERRIMUM SSP FASTIGIATUM	SMOOTH WILLOWHERB	G5T?	S2S3
FLOERKEA PROSERPINACOIDES	FALSE-MERMAID	G5	S1?
HESPEROCHIRON PUMILUS	DWARF HESPEROCHIRON	G4	S1?
HETEROCODON RARIFLORUM	HETEROCODON	G5	S2S3
HYPERICUM SCOULERI SSP NORTONIAE	WESTERN ST. JOHN'S-WORT	G5T?	S2S3
IMPATIENS ECALCARATA	SPURLESS TOUCH-ME-NOT	G3G4	S2S3
LIGUSTICUM VERTICILLATUM	VERTICILLATE-UMBEL LOVAGE	G4G5	S1?
LINANTHUS HARKNESSII	HARKNESS' LINANTHUS	G3G4	S1
LINANTHUS SEPTENTRIONALIS	NORTHERN LINANTHUS	G5	S2
MERTENSIA PANICULATA VAR BOREALIS	TALL BLUEBELLS	G5T?	S2S3
MIMULUS BREWERI	BREWER'S MONKEY-FLOWER	G4?	S2S3
NEMOPHILA BREVIFLORA	GREAT BASIN NEMOPHILA	G5	S2S3
OXYTROPIS COLUMBIANA	COLUMBIA RIVER LOCOWEED	G3	S3
POLEMONIUM CAERULEUM SSP AMYGDALINUM	TALL JACOB'S-LADDER	G?T?	S1?
RUBUS NIVALIS	SNOW DEWBERRY	G4?	S2S3
RUMEX PAUCIFOLIUS	ALPINE SORREL	G4	S1?
SCUTELLARIA ANGUSTIFOLIA	NARROW-LEAVED SKULLCAP	G5	S1?
SENECIO FOETIDUS VAR FOETIDUS	SWEET-MARSH BUTTERWEED	G4G5T4T5	S1
SENECIO HYDROPHILUS	ALKALI-MARSH BUTTERWEED	G5	SH
STELLARIA OBTUSA	BLUNT-SEPALED STARWORT	G5	S2S3
TRICHOSTEMA OBLONGUM	MOUNTAIN BLUE-CURLS	G5	S1
TRIFOLIUM CYATHIFERUM	CUP CLOVER	G4	S1
VIOLA SEPTENTRIONALIS	NORTHERN BLUE VIOLET	G5	S1?
*** MONOCOTS			
CAREX EPAPILLOSA	BLACKENED SEDGE	G?Q	S1?
CAREX SAXIMONTANA	ROCKY MOUNTAIN SEDGE	G5	S2S3
CAREX SCOPARIA	POINTED BROOM SEDGE	G5	S2S3
MELICA SMITHII	SMITH'S MELIC	G4	S2S3
MELICA SPECTABILIS	PURPLE ONIONGRASS	G5	S2S3
SCIRPUS PALLIDUS	PALE BULRUSH	G5	S1?
STIPA SPARTEA	PORCUPINE-GRASS	G5	S1

43 TAXA LISTED

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B.C. Conservation Data Centre: Rare Plant Community Tracking List
Revelstoke Forest District (FD # 54)
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SCIENTIFIC NAME	COMMON NAME	H R
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2 COMMUNITIES LISTED

***BGC site series as defined by Ministry of Forests "Field Guide to Site Identificat for this Forest Region.**

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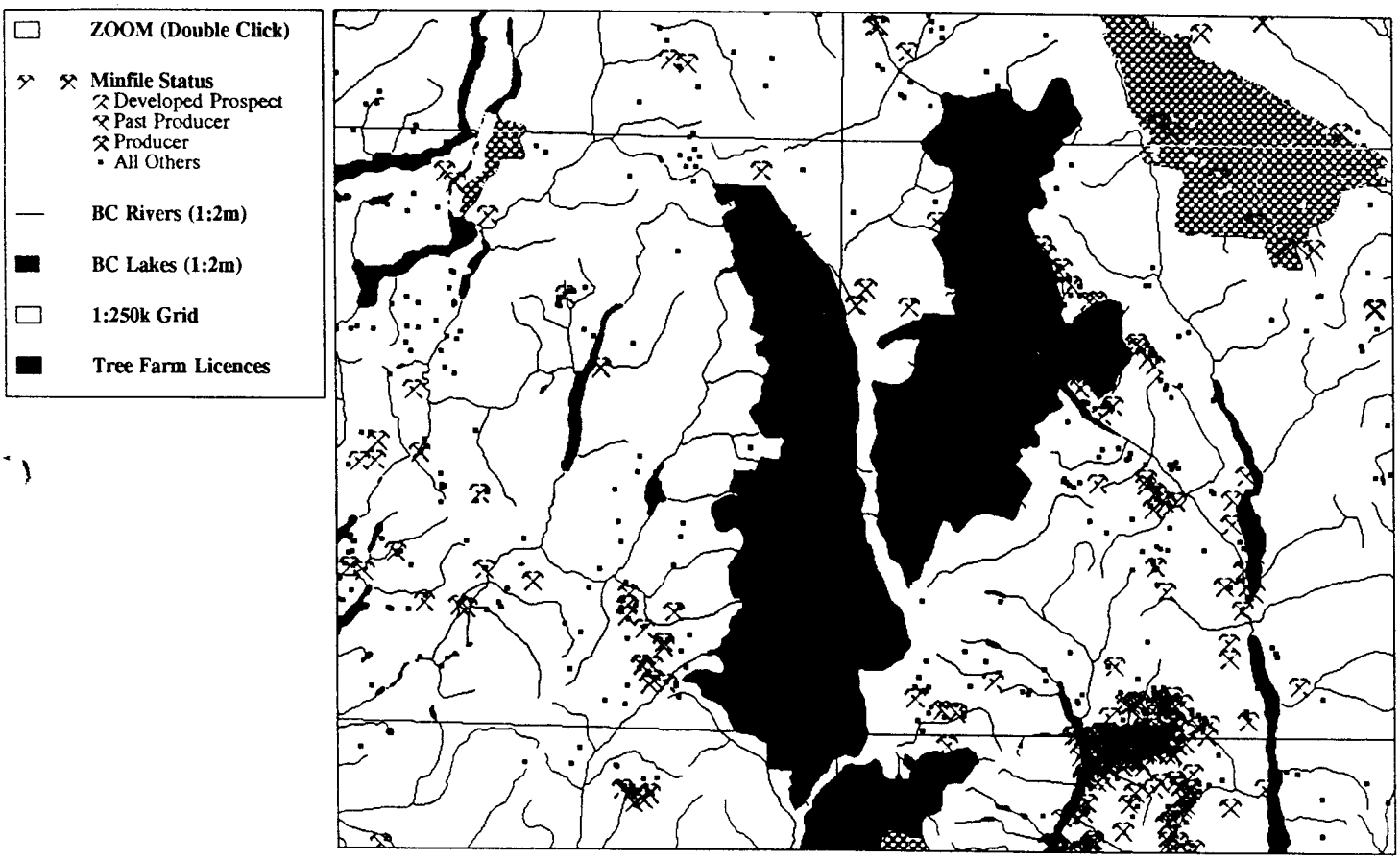
APPENDIX II

II.4 Non-timber Inventory Statistics

Mineral Prospects

B.C. Ministry of Energy and Mines



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MILES

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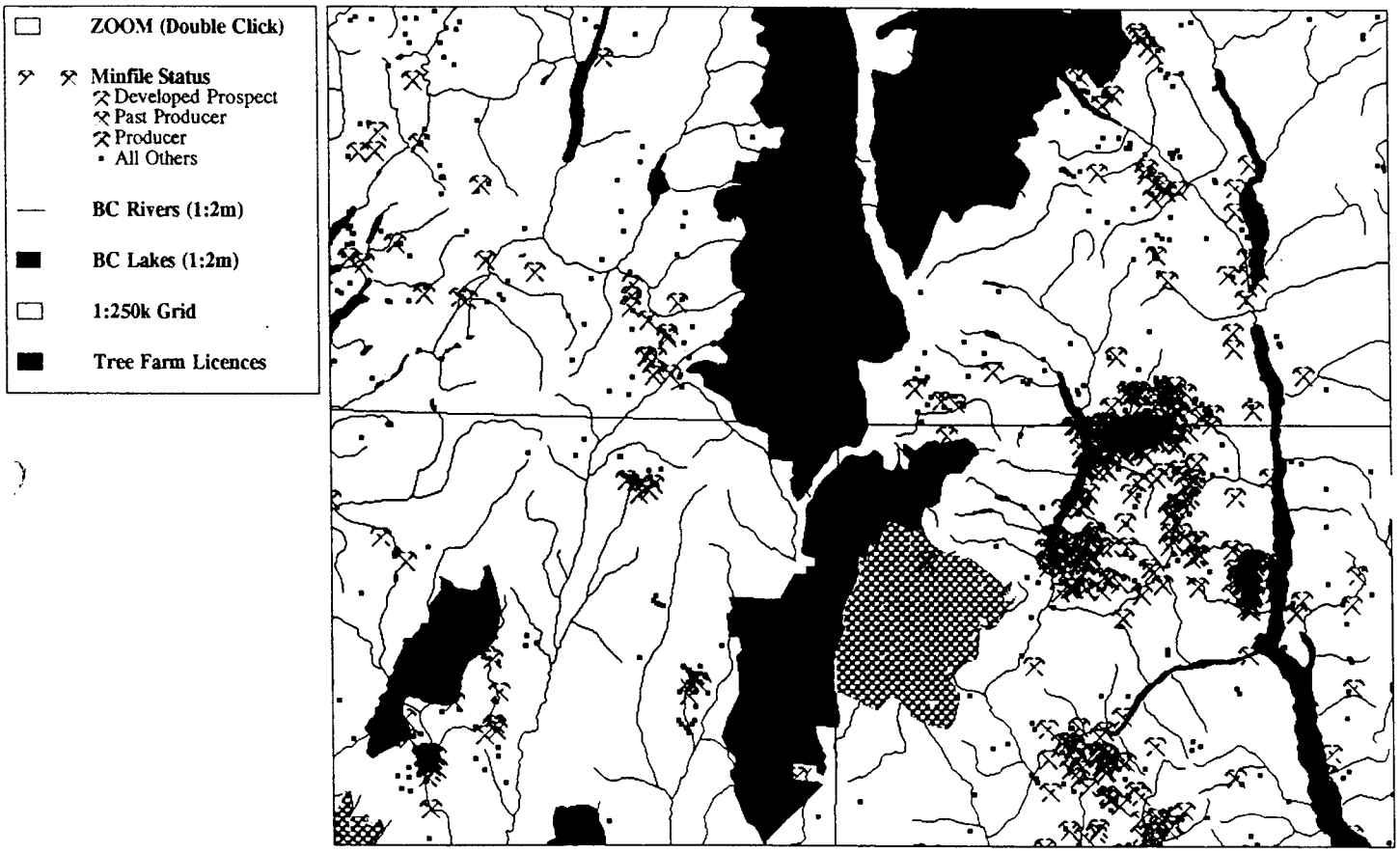
Thursday, May 07, 1998 11:26 AM

B.C. Ministry of Energy and Mines



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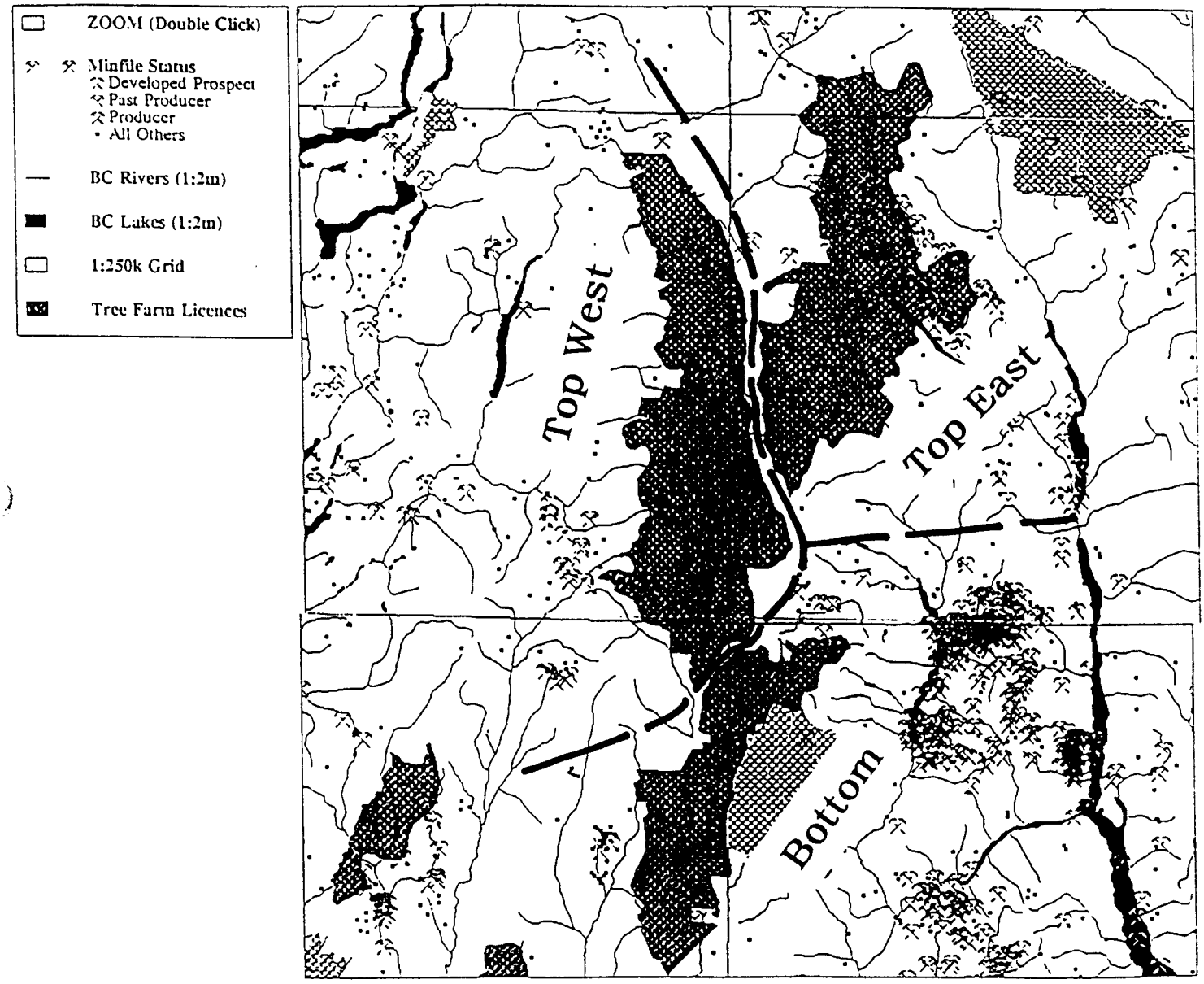
B.C. Ministry of Energy and Mines

TFL 23 -- File Info



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MILES

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Thursday, Mar 07, 1996 11:15 AM

Pope & Talbot Ltd. -- TFL 23

[P&T-9633]

Mineral Title Holders Staus Summary

General Area	Key Information		Status Types					Total Status Types
	NTS Map #	Quaderent [NW/NE/SW/SE]	Develop Prospect	Past Producer	Producer	Prospect	Showing	
Top West	082K	NW	1				1	2
		SW					5	5
			1	**0**	**0**	**0**	**6**	**7**
	082L	NE					12	12
		SE	1	3		3	7	14
			1	**3**	**0**	**3**	**19**	**26**
Top West Total			**2**	**3**	**0**	**3**	**25**	**33**

General Area	Key Information		Status Types					Total Status Types
	NTS # Map #	Quaderent [NW/NE/SW/Se]	Develop Prospect	Past Producer	Producer	Prospect	Showing	
Top East	082K	NW	5	46		92	39	182
		SW					2	2
			5	**46**	**0**	**92**	**41**	**184**
	082N					9	2	11
			0	**0**	**0**	**9**	**2**	**11**
Top East Total			**5**	**46**	**0**	**101**	**43**	**195**

General Area	Key Information		Status Types					Total Status Types
	NTS # Map #	Quaderent [NW/NE/SW/Se]	Develop Prospect	Past Producer	Producer	Prospect	Showing	
Bottom	082E	NE					2	2
		SE		2				2
			0	**2**	**0**	**0**	**2**	**4**
	082F	NW	1			1	1	3
			1	**0**	**0**	**1**	**1**	**3**
Bottom Total			**1**	**2**	**0**	**1**	**3**	**7**
Overall			**8**	**51**	**0**	**105**	**71**	**235**

Ministry of Energy and Mines

MINFILE Reserves/Resource Inventory
In British Columbia
Open File 1998-4

Back to the MINFILE Home page
MINFILE Products List
Crown Publications Inc.

FORWARD

This 174-page report includes a 102-page table of 774 mineral deposits in British Columbia with known reserves and resources. The inventory, which is sorted by deposit name, includes the tonnage and grade of metallic minerals, industrial minerals, and coal occurrences. These deposits are cross-referenced with tables sorted by *MINFILE Number*, *name* and *deposit type*. The tables were generated from MINFILE/pc V. 4.5 and reflect the status of the MINFILE database as of January 1998.

This Open File was created to serve as a handy hard-copy reference for anyone interested in British Columbia's rich mineral endowment. This publication will appeal to a wide variety of local and international users, including government agencies, mining and exploration companies, researchers and the public.

TABLE OF CONTENTS

6. MINFILE Number Index (not available on web)
7. Mineral Deposit Profiles
8. Deposit Type Index (not available on web)

A. INTRODUCTION

MINFILE is a comprehensive, computerized mineral inventory of over 11,900 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 *location*, *mineralogy* and *alteration*, *geology* and *hostrocks*, *bibliography*, *assay data*, *reserves/resources* and *production*. Each record also contains a text description (*capsule geology*) of the mineral deposit.

This publication documents the known reserves and resources of 774 mineral deposits from the MINFILE database. The reserves/resources are reported in tonnes and grade of commodities. The main report (*MINFILE Reserves/Resources Inventory*), which is generated from MINFILE/pc V. 4.5, reflects the status of the database as of January 1998. Data for each deposit include *name*, *MINFILE number*, *geographic location*, *NTS map*, *status*, *mining division*, *deposit type*, *zone name*, *year*, *reference*, *comments*, *tonnage*, *category*, *grade* and *commodity*. The **Reserve** category is used only for an inventory in an operating mine or a mine near production. Ore reserves are reported as *Proven*, *Probable* and *Possible*. The **Resource** category is used for all other inventories. Resources are reported as *Measured*, *Indicated* and *Inferred*. A combination of categories is reported as *Combined*.

Qualitative and quantitative reporting of deposit economics are affected by several parameters. Some of these are the variable reliability of reporting, differences in interpretation of terms, and changing economic conditions. Reserves and resources are not calculated by *Ministry of Energy and Mines* personnel but are quoted from referenced industry sources and/or publications. Due to differences in identifying categories in the data sources, Ministry personnel may occasionally interpret into which category the figures are placed. The reader should refer to the original data for detailed information.

Various reports and sorted tables are included for additional information, definitions and cross-references. These include: a *Commodity Legend*, a sample *Master Report*, an *Alphabetical Index*, a *MINFILE Number Index*, a table of *Mineral Deposit Profiles*, and a *Deposit Type Index*. **Deposit type** is based on British Columbia Mineral Deposit Profiles of the Geological Survey Branch. A sketch map shows the *Distribution of Deposits*.

Effort has been made to ensure that the contents of this publication are as accurate as possible. The reader is encouraged to send comments on or corrections to the data in this publication to: MINFILE, Geological Survey Branch, Ministry of Energy and Mines, P.O. Box 9320 STN PROV GOV'T, VICTORIA BC V8W 9N3; Office location: 5th Floor, 1810 Blanshard Street; Phone: (250) 952-0386; Fax: (250) 952-0381; E-mail: Larry.Jones@gems5.gov.bc.ca; WWW: http://www.ei.gov.bc.ca/geology/minfile/minfile.htm.

B. SUMMARY OF TABLE ENTRIES

1. NAME

This is the most common or historically relevant name for a deposit. In MINFILE, the most important name is listed first followed by up to 16 aliases, in order of importance. Use the *Alphabetical Index* for cross-reference if a name is not found in the *Inventory Report*. Once the name has been located in the *Alphabetical Index*, look up the MINFILE number in the *MINFILE Number Index* and ascertain the first-ranked name. Use this name to lookup the deposit information in the *Inventory Report*.

2. MINFILE NUMBER

Each mineral occurrence has a unique 9-character MINFILE number consisting of NTS location and a sequential three-digit number. A two-character (NE, NW, SE, SW) designation, where necessary, identifies the appropriate quadrant on the map sheet. Due to a high density of occurrences, most of the map sheets in southern B.C. are plotted at a 1:100,000 scale. The other areas are plotted at a 1:250,000 scale.

Examples:

082ENE023 (1:100,000 scale)
093M 014 (1:250,000 scale)
092IW 002 is an exception

3. LOCATION (Latitude/longitude and UTM)

Location coordinates for a deposit are expressed in latitude-longitude and Universal Transverse Mercator (UTM). They are also available in North American Datum NAD 27 or NAD 83. The location is the most significant physical reference point. In some cases this will be an adit, portal or similar mine working. In other cases, the location may be defined as the centre of a mineral claim, a trench, sample site, outcrop or drillhole site.

4. NTS MAP

This is the National Topographic System map sheet designation for the 1:50,000 map sheet on which the mineral deposit is located.

Example: *082F03E*

5. MINING DIVISION

The table displays the first of up to two Mining Divisions in which the deposit is located.

6. STATUS

This describes the state of development of the deposit as of the date of coding. The number in brackets is the status distribution in this publication of 774 ocurrences.

Producer:	*deposits from which ore containing one or more commodities is being mined for commercial gain or benefit* (39)
Past Producer:	*deposits that are not currently being mined but have recorded production.* (258)
Developed Prospect:	*deposits on which exploration and development have progressed to a stage that allows a reasonable estimate of the amount(s) of one or more of the potentially mineable commodities.* (442)
Prospect:	*occurrences documented as containing mineralization which warrants further exploration.* (33)
Showing:	*occurrences hosting minor in-situ mineralization.* (2)

7. DEPOSIT TYPE

Deposit types are based on the British Columbia Mineral Deposit Profiles of the Geological Survey Branch (*see Table 7*). The objective of the Profiles is to define, classify and characterize coal, mineral, and industrial mineral deposits that exist, or could exist, within the province.

The principle means of identifying and classifying a mineral deposit type is to note that several mineral deposits appear to have similar characteristics. These include hostrocks, size and grade of orebodies, associated rocks, commodities, geological setting, form and distribution of mineralization, genetic models, mineralogy, age, ore controls and others.

MINFILE accepts up to four Deposit types for any given deposit. Only the first is listed. The Deposit Type index (*see Table 8*) lists all deposit types associated with the 774 deposits; multiple entries exist in the table.

For more information on Mineral Deposit Profiles, see D.V. Lefebure and T. Höy, **Selected British Columbia Mineral Deposit Profiles**, Volume 2 - Metallic Deposits, B.C. Ministry of Employment and Investment, Open File 1996-13. Also visit the website at: *http://www.ei.gov.bc.ca/geosmin/metalmin/mdp/mdphome.htm*.

8. ZONE NAME

This is the name of the distinct unit or ore zone of a deposit for which a calculation is made. Several zones may be associated with each deposit and may include categories in both the *Reserve* and *Resource* fields. If a deposit has only one ore zone or does not distinguish between ore zones, then the name of the deposit is used for the ore zone name.

9. INVENTORY CATEGORY

a) RESERVE

The *Reserve* category is used only for a mineral and/or substance inventory in an operating mine or mine near production. Sufficient information is available to form the basis of a preliminary mine production plan. Factors that affect ore reserve estimates are geological, economic, mining, metallurgical, marketing, environmental, social and governmental conditions. Ore reserves are reported as *Proven*, *Probable* and *Possible*.

Proven (PV): Ore reserves are stated in terms of mineable tonnes and grades in which the identified

substance has been defined using sufficient metallurgical, mine method, geoscientific, infrastructure, operating and capital cost data. Other applicable reserve adjectives may include measured recoverable, diluted, mineable, ore, or in situ.

Probable (PB): Ore reserves are stated in terms of mineable tonnes and grades where sufficient information is available about the thickness, grade, grade distribution, mineable shape and extent of the deposit. Continuity of mineralization should be clearly established. Other applicable reserve adjectives may include measured geological, drill indicated, or indicated.

Possible (PS): Ore reserves are stated in terms of mineable tonnes and grades computed on the basis of limited geoscientific data, but with a reasonable understanding of the distribution and correlation of the substance in relation to this data. Other applicable reserve adjectives may include inferred, geological, mineral inventory, or potential.

b) RESOURCE

The *Resource* category is used for a mineral and/or substance inventory other than an operating mine. Valuable or useful material is quantified on the basis of geoscientific data and expected economic merit. Mine, metallurgical, price and cost data are not necessarily available. In reporting a resource, there is an implication that there are reasonable prospects for eventual economic exploitation. Resources are reported as ***Measured***, ***Indicated*** and ***Inferred***.

Measured (MG): Sufficient information is available about the thickness, grade, distribution, mineable shape and extent of the deposit to give defined grade and tonnage figures. Continuity of mineralization should be clearly established. Other applicable resource adjectives may include proven, measured recoverable, diluted, mineable, or in situ.

Indicated (IN): Tonnage and grade are computed partly from detailed sampling procedures and partly from projection for a measurable distance, based on geoscientific data. Sampling procedures are too widely spaced to ensure continuity but close enough to give a reasonable indication of continuity. Other applicable resource adjectives may include probable, measured geological, or drill indicated.

Inferred (IF): An estimate of tonnage and grade computed from geoscientific data or other sampling procedures, but before testing and sampling information is sufficient to allow a more reliable and systematic estimation. Other applicable resource adjectives may include possible, geological, mineral inventory, or potential.

*Combined (CB): This designation is used when an inventory figure is reported to be a combination of categories (e.g.) PV + PB (Proven and Probable) reserves or MG + IF (Measured and Inferred) resources. It can be applied to both the **Reserve** and **Resource** categories.*

*Unclassified (UN): This designation indicates that the criteria for qualifying the inventory figures are not available. The Unclassified category can be applied to both the **Reserve** and **Resource** categories. For example, a tonnage figure is given with grades of commodities, but the category is not stated.*

10. YEAR

This is the year the inventory figures were published. If the reserves or resources were calculated in any year prior to the official publication date, the source and year of the calculations may be identified in the comment field.

11. INVENTORY COMMENTS

This free-format field identifies information on cutoff grades or other data pertinent to the final figures.

12. REFERENCE

The source of the inventory figures is listed.

13. TONNAGE (Quantity)

Reserves or resources are quoted in metric tonnes. General or approximate figures are entered when no other information is available.

14. COMMODITY/GRADE

Up to six commodities with grade figures are included. These reflect those commodities that can be recovered from a deposit. Commodity codes use the standard elemental chemical symbols or two-letter codes (*see Table 1*) followed by the grade (precious metals in grams per metric tonne, other commodities in per cent). Some industrial minerals may be quoted in kilograms.

C. GENERAL INFORMATION ON THE MINFILE DATABASE AND SOFTWARE

1. MINFILE Database

MINFILE is a comprehensive, computerized mineral inventory of over 11,900 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 1998, 93 per cent of the total database has been updated and entered into the computer. Of this, 89 per cent or 97 of the 105 map areas have been released to the public. Professional geologists constantly maintain and expand on the information. Newly compiled information is released periodically by NTS mapsheet and the data for the entire province is released once a year in January.

MINFILE data are distributed on 1.44 MB diskettes or are downloadable free from the Web. Hard copy printouts (while they last) and maps with occurrences plotted on geological and topographic bases are also available. The entire provincial MINFILE database comes on 15 disks ($75.00/set or $7.50/diskette). The 92 Mineral Inventory/MINFILE maps are available on microfiche for $10.00 per set. This microfiche set was last updated January 1997. Paper maps are $5.00 each; printouts (being discontinued) range from $5.00 to $50.00 per NTS area. A readme.doc file on each disk describes the database.

MINFILE paper reports (these are replaced by a CD-ROM), mineral occurrence maps and data diskettes are available from: Crown Publications Inc., 521 Fort Street, VICTORIA BC CANADA V8W 1E7; Phone: (250) 386-4636; Fax: (250) 386-0221; WWW: http://vvv.com/crownpub/empinv3.html.

2. MINFILE/pc System

MINFILE data can be accessed on an IBM-PC compatible computer by using the MINFILE/pc software, which is a menu-driven data-entry, search-and-report program. The program, with its user-friendly interface, is used to search the extensive, constantly changing database; generate a variety of reports either on-screen, to a file or printer; and alter the data as required. MINFILE/pc can also be used to transfer data to other programs such as word processors, plotting packages and Geographic Information Systems. A readme.doc file describes the system and installation.

MINFILE/pc Version 4.5 (January 1998) features: simple installation; twelve search screens based on geological parameters; the ability to easily change, create or delete data; quick viewing of the data; effortless addition and deletion of data-sets; various attractive reports; and importing and exporting data in various formats. A highly efficient text searching system, using software from Proximity Technology Inc., allows automatic input of codes to the database. Additional features include: an improved interface; running under FoxPro with expanded memory; mouse support; password security to restrict access to read only; ability to input anomalies or temporary occurrences; ability to batch delete occurrences; and the ability to create a QuikMap compatible file. The software also includes several new extract files and formats; user-defined region codes; and ability to enter data for any location in the world. **All search screens now have code table lookups.**

MINFILE/pc is a stand-alone, menu-driven program for IBM-compatible microcomputers. A 486 processor or higher is recommended. The program requires MS-DOS Version 3.21 or higher, a 1.44-megabyte, 3.5-inch floppy drive, and a hard-disk drive with sufficient space to accommodate a configured data set. The MINFILE/pc system requires 4.0 megabytes of disk space and the data require 5 to 10 megabytes of disk space per 1000 occurrences, depending on occurrence details. The province wide database of over 11,900 occurrences occupies 65 megabytes of space. MINFILE data are distributed in ASCII files, which are configured into database (dBASE) files with indices. The ASCII format, along with a data dictionary, allows flexibility for use in many database management systems.

MINFILE/pc Version 4.5 software is downloadable from the Web. Version 4.5 of the User's Manual (Information Circular 1997-2) is currently being developed for download and distribution on disk; a draft of this version can be viewed on the Web. Previous 4.0 versions of the User's Manual (Information Circular 1996-2) and Coding Manual (Information Circular 1996-5) are available for download and on disk.

Comments and requests for MINFILE information, MINFILE Coding Manual, MINFILE User's Manual and MINFILE/pc system diskettes should be directed to: MINFILE, Geological Survey Branch, Ministry of Energy and Mines, P.O. Box 9320, STN PROV GOV'T, VICTORIA BC CANADA V8W 9N3; Office location: 5th Floor, 1810 Blanshard Street. **Contacts:**

Larry Jones (250) 952-0386 (E-mail: Larry.Jones@gems5.gov.bc.ca);
Laura de Groot (250) 952-0387 (E-mail: Laura.deGroot@gems1.gov.bc.ca);
George Owsiacki (250) 952-0389 (E-mail: George.Owsiacki@gems4.gov.bc.ca);
Fax (250) 952-0381;
WWW: http://www.ei.gov.bc.ca/geosmin/minfile/minfile.htm.

D. Reports and Tables

1. Commodity Legend
2. Distribution of Deposits Map (white background)
3. MINFILE Reserves/Resources Inventory Report (not available on web)
4. Sample Master Report (Eskay Creek - 104B 008)
5. Alphabetical Index (not available on web)
6. MINFILE Number Index (not available on web)
7. Mineral Deposit Profiles
8. Deposit Type Index (not available on web)

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Last updated January 20, 1998.

Mineral File Report

Pope & Talbot -- TFL 23 [TFL23-TopWest.htm]

Key:	082KNW096
NAME:	MURRAY
STATUS:	Showing
COMMODITYS:	CU AG
DEP_TYPE:	E14
Latitude:	50.6166666666667
Longitude:	-117.986111111111

Key:	082KNW226
NAME:	SIDMOUTH
STATUS:	Developed Prospect
COMMODITYS:	LS MB BS
DEP_TYPE:	R09
Latitude:	50.725
Longitude:	-117.959444444444

Key:	082KSW073
NAME:	PINGSTON CREEK LIMESTONE
STATUS:	Showing
COMMODITYS:	LS MB BS
DEP_TYPE:	R09
Latitude:	50.4127777777778
Longitude:	-117.934166666667

Key:	082KSW099
NAME:	PINGSTON : PING PONG
STATUS:	Showing
COMMODITYS:	ZN AG PB CU
DEP_TYPE:	E14
Latitude:	50.4991666666667

Longitude:	-117.973333333333

Key:	082KSW109
NAME:	STA-TITE
STATUS:	Showing
COMMODITYS:	UR TH
DEP_TYPE:	O02
Latitude:	50.2055555555556
Longitude:	-117.928888888889

Key:	082KSW186
NAME:	BULL
STATUS:	Showing
COMMODITYS:	ZN
DEP_TYPE:	E14
Latitude:	50.2463888888889
Longitude:	-117.920555555556

Key:	082KSW187
NAME:	ANNIE
STATUS:	Showing
COMMODITYS:	AG PB AU CU
DEP_TYPE:	I05
Latitude:	50.3088888888889
Longitude:	-117.972222222222

Key:	082LNE015
NAME:	MOUNT BEGBIE
STATUS:	Showing
COMMODITYS:	GS BY
DEP_TYPE:	O01
Latitude:	50.8883333333333
Longitude:	-118.247777777778

Key:	082LNE020
NAME:	CRAN 3
STATUS:	Showing
COMMODITYS:	UR
DEP_TYPE:	O02
Latitude:	50.7597222222222
Longitude:	-118.030277777778

Key:	082LNE021
NAME:	MOUNT ODIN : MT ODIN
STATUS:	Showing
COMMODITYS:	SI
DEP_TYPE:	R07
Latitude:	50.5261111111111
Longitude:	-118.211111111111

Key:	082LNE022
NAME:	PINGSTON CREEK
STATUS:	Showing
COMMODITYS:	SI
DEP_TYPE:	R07
Latitude:	50.7033333333333
Longitude:	-118.081111111111

Key:	082LNE032
NAME:	LEDGE CREEK
STATUS:	Showing
COMMODITYS:	SL
Latitude:	50.5258333333333
Longitude:	-118.168611111111

Key:	082LNE033

NAME:	CRAN 2
STATUS:	Showing
COMMODITYS:	UR
DEP_TYPE:	O02
Latitude:	50.7805555555556
Longitude:	-118.04

Key:	082LNE034
NAME:	CRAN 4
STATUS:	Showing
COMMODITYS:	UR
DEP_TYPE:	O02
Latitude:	50.7375
Longitude:	-118.006666666667

Key:	082LNE035
NAME:	CAMERON (JENKINS 2)
STATUS:	Showing
COMMODITYS:	TH UR
Latitude:	50.7722222222222
Longitude:	-118.106666666667

Key:	082LNE036
NAME:	CAMERON (JENKINS 1)
STATUS:	Showing
COMMODITYS:	TH UR
DEP_TYPE:	O02
Latitude:	50.7944444444444
Longitude:	-118.076111111111

Key:	082LNE037
NAME:	KAREN : ARCL
STATUS:	Showing

COMMODITYS:	RS TH
Latitude:	50.8416666666667
Longitude:	-118.108055555556

Key:	082LNE038
NAME:	MULVEHILL
STATUS:	Showing
COMMODITYS:	TH RS SI
Latitude:	50.8541666666667
Longitude:	-118.123333333333

Key:	082LNE040
NAME:	ODIN CREEK
STATUS:	Showing
COMMODITYS:	SL GN
DEP_TYPE:	P02
Latitude:	50.5663888888889
Longitude:	-118.146111111111

Key:	082LSE002
NAME:	PARADISE : INTERNATIONAL : BELLVIEW : LAKEVIEW : GOLDEN MARTEN II : AU 2
STATUS:	Prospect
COMMODITYS:	AG AU
DEP_TYPE:	I05
Latitude:	50.0733333333333
Longitude:	-118.418055555556

Key:	082LSE004
NAME:	RENOWN : REPULSE : HOOD : BLUEBELL : BLUEBIRD : GOLDEN MARTEN II : AU 1-2
STATUS:	Prospect
COMMODITYS:	AU AG
Latitude:	50.0775
Longitude:	-118.417777777778

Key:	082LSE012
NAME:	BIG LEDGE : MONARCH : ADVENTURER (L.1067) : BL : SUNSHINE (L.2477) : SKYLINE
STATUS:	Developed Prospect
COMMODITYS:	ZN PB CU
DEP_TYPE:	S01
Latitude:	50.475
Longitude:	-118.051111111111

Key:	082LSE014
NAME:	FRED : FRED 1-16
STATUS:	Showing
COMMODITYS:	ZN AG
DEP_TYPE:	E14
Latitude:	50.0611111111111
Longitude:	-118.238611111111

Key:	082LSE021
NAME:	KL : KL 1-12 : SNOW 1-4 : SNOW I-III : KEEFER : CRYSTAL 2 : KEEFER LAKE : KEE
STATUS:	Showing
COMMODITYS:	AU AG
DEP_TYPE:	I01
Latitude:	50.1322222222222
Longitude:	-118.326111111111

Key:	082LSE027
NAME:	CASEY 7 : CASEY 1-10 : JUNE : LEDGE : B.L. : LEDGE EXTENSION : ARROW : PING PONG
STATUS:	Prospect
COMMODITYS:	AG ZN PB
DEP_TYPE:	E14
Latitude:	50.47
Longitude:	-118.004444444444

Key:	082LSE040
NAME:	ROSE : ROSE 1-6 : KEEFER
STATUS:	Showing
COMMODITYS:	AU AG
Latitude:	50.13
Longitude:	-118.331111111111

Key:	082LSE044
NAME:	EUREKA
STATUS:	Showing
COMMODITYS:	AU
Latitude:	50.0666666666667
Longitude:	-118.324444444444

Key:	082LSE045
NAME:	HOLDING CREEK
STATUS:	Past Producer
COMMODITYS:	AU
DEP_TYPE:	C01
Latitude:	50.0833333333333
Longitude:	-118.321111111111

Key:	082LSE046
NAME:	EUREKA CREEK : ZAG
STATUS:	Past Producer
COMMODITYS:	AU
DEP_TYPE:	C01
Latitude:	50.0763888888889
Longitude:	-118.321666666667

Key:	082LSE047
NAME:	FRED WEST
STATUS:	Showing

COMMODITYS:	ZN
DEP_TYPE:	E14
Latitude:	50.0666666666667
Longitude:	-118.261111111111

Key:	082LSE053
NAME:	BARNES CREEK
STATUS:	Past Producer
COMMODITYS:	AU
DEP_TYPE:	C01
Latitude:	50.0622222222222
Longitude:	-118.256388888889

Key:	082LSE057
NAME:	THOR ODIN : MOUNT FOSTHALL : MOUNT SYMONDS
STATUS:	Showing
COMMODITYS:	SL GN
DEP_TYPE:	P02
Latitude:	50.4794444444444
Longitude:	-118.23

Key:	082LSE070
NAME:	AMF : AMF 3
STATUS:	Showing
COMMODITYS:	CU AG
Latitude:	50.4425
Longitude:	-118.014444444444

This Database Last Updated: August 1997.
For more information on MINFILE
To obtain MINFILE/PC or dataset (no charge)
British Columbia Geological Survey Branch
B.C. Ministry of Energy and Mines

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Mineral File Report

Key:	082KNW001
NAME:	MAGGIE MAY
STATUS:	Prospect
COMMODITYS:	PB
DEP_TYPE:	I05
Latitude:	50.66
Longitude:	-117.607777777778

Key:	082KNW002
NAME:	BEATON CREEK
STATUS:	Showing
COMMODITYS:	PB AG
Latitude:	50.6683333333333
Longitude:	-117.634444444444

Key:	082KNW003
NAME:	LUCKY BOY (L.5423) : HORSESHOE (L.5342)
STATUS:	Past Producer
COMMODITYS:	AG PB CU ZN WO
DEP_TYPE:	I05
Latitude:	50.6383333333333
Longitude:	-117.602777777778

Key:	082KNW004
NAME:	COPPER CHIEF (L.4584) : RUFFLED GROUSE : WILLOW GROUSE
STATUS:	Past Producer
COMMODITYS:	AG CU WO PB ZN MO
Latitude:	50.6366666666667
Longitude:	-117.604444444444

Key:	082KNW005
NAME:	WOODS
STATUS:	Showing
COMMODITYS:	FE
Latitude:	50.7183333333333
Longitude:	-117.501111111111

Key:	082KNW006
NAME:	TONAWANDA
STATUS:	Prospect
COMMODITYS:	CU
Latitude:	50.705
Longitude:	-117.481111111111

Key:	082KNW007
NAME:	BALTIMORE : REVENUE : KATINKA
STATUS:	Prospect
COMMODITYS:	ZN
DEP_TYPE:	I05
Latitude:	50.6983333333333
Longitude:	-117.467777777778

Key:	082KNW008
NAME:	BRUCE : GIPSY
STATUS:	Prospect
COMMODITYS:	PB ZN
Latitude:	50.6916666666667
Longitude:	-117.484444444444

Key:	082KNW009
NAME:	IXL (L.8710) : IXL FR. : GYP (L.5691)
STATUS:	Prospect
COMMODITYS:	AG PB AU ZN

DEP_TYPE:	I05
Latitude:	50.6933333333333
Longitude:	-117.454444444444

Key:	082KNW010
NAME:	G.Y.P. FR. (L.5691)
STATUS:	Showing
COMMODITYS:	PB ZN
DEP_TYPE:	I05
Latitude:	50.6916666666667
Longitude:	-117.452777777778

Key:	082KNW011
NAME:	BROW
STATUS:	Showing
COMMODITYS:	FE CU PB AU AG
Latitude:	50.6816666666667
Longitude:	-117.446111111111

Key:	082KNW012
NAME:	RAVEN : SILVER BELL : OK : CRACKER JACK
STATUS:	Past Producer
COMMODITYS:	AG PB ZN FE CU
DEP_TYPE:	I05
Latitude:	50.68
Longitude:	-117.441111111111

Key:	082KNW013
NAME:	FLORENCE (L.7051) : REWARD : FLORENCE FR. (L.7592)
STATUS:	Prospect
COMMODITYS:	PB AG
Latitude:	50.6733333333333
Longitude:	-117.434444444444

Key:	082KNW014
NAME:	BLACK EAGLE
STATUS:	Prospect
COMMODITYS:	AG
Latitude:	50.6733333333333
Longitude:	-117.417777777778

Key:	082KNW015
NAME:	CANADIAN (L.4737)
STATUS:	Prospect
COMMODITYS:	PB AU
DEP_TYPE:	I05
Latitude:	50.67
Longitude:	-117.417777777778

Key:	082KNW016
NAME:	GOLD BUG : GOLD BUG FR.
STATUS:	Prospect
COMMODITYS:	AG PB ZN AU
DEP_TYPE:	I05
Latitude:	50.665
Longitude:	-117.402777777778

Key:	082KNW017
NAME:	PARRSBORO
STATUS:	Prospect
COMMODITYS:	AG PB ZN AU
Latitude:	50.665
Longitude:	-117.402777777778

Key:	082KNW018
NAME:	CANADIAN BOY : SILVER SLIPPER
STATUS:	Past Producer

COMMODITYS:	AG PB ZN AU
DEP_TYPE:	I05
Latitude:	50.6633333333333
Longitude:	-117.409444444444

Key:	082KNW019
NAME:	RAMBLER (L.6470) : GOLD BUG
STATUS:	Prospect
COMMODITYS:	AG PB ZN AU
DEP_TYPE:	J01
Latitude:	50.6633333333333
Longitude:	-117.396111111111

Key:	082KNW020
NAME:	DAVEY (L.2452)
STATUS:	Prospect
COMMODITYS:	PB ZN
DEP_TYPE:	I05
Latitude:	50.6616666666667
Longitude:	-117.389444444444

Key:	082KNW021
NAME:	COPPER QUEEN (L.6477)
STATUS:	Prospect
COMMODITYS:	AG PB ZN
Latitude:	50.6316666666667
Longitude:	-117.424444444444

Key:	082KNW022
NAME:	CALIFORNIA
STATUS:	Prospect
COMMODITYS:	PB
DEP_TYPE:	I05

Latitude:	50.64
Longitude:	-117.397777777778

Key:	082KNW023
NAME:	U AND I (L.7589)
STATUS:	Past Producer
COMMODITYS:	AU AG PB ZN CU
DEP_TYPE:	I05
Latitude:	50.6233333333333
Longitude:	-117.376111111111

Key:	082KNW024
NAME:	OKANAGAN (L.9127) : ENDERBY
STATUS:	Past Producer
COMMODITYS:	AU AG PB ZN CU
DEP_TYPE:	I05
Latitude:	50.6233333333333
Longitude:	-117.376111111111

Key:	082KNW025
NAME:	WINSLOW (L.8680)
STATUS:	Past Producer
COMMODITYS:	AU AG ZN PB CU
DEP_TYPE:	I05
Latitude:	50.62
Longitude:	-117.387777777778

Key:	082KNW026
NAME:	TRIUNE (L.5681) : REVENGE (L.5685) : TRIUNE NO.1 : SILVER CHIEF (L.5683) : ENTERPRISE (L.5682)
STATUS:	Past Producer
COMMODITYS:	AG AU PB ZN
DEP_TYPE:	I05
Latitude:	50.6266666666667

Longitude:	-117.361111111111

Key:	082KNW027
NAME:	SILVER CUP (L.768) : SUNSHINE (L.1564) : SILVER CUP FRACTION (L.2622) : COMSTOCK : COMSTOCK/AINSWORTH
STATUS:	Past Producer
COMMODITYS:	AG PB ZN AU CU
DEP_TYPE:	I05
Latitude:	50.6386111111111
Longitude:	-117.369166666667

Key:	082KNW028
NAME:	TOWSER (L.1565)
STATUS:	Past Producer
COMMODITYS:	AG PB ZN AU
DEP_TYPE:	I05
Latitude:	50.6433333333333
Longitude:	-117.374444444444

Key:	082KNW029
NAME:	MUSKATEER
STATUS:	Prospect
COMMODITYS:	FE
Latitude:	50.73
Longitude:	-117.451111111111

Key:	082KNW030
NAME:	TRUE FISSURE (L.1097)
STATUS:	Past Producer
COMMODITYS:	AG PB ZN AU CU
DEP_TYPE:	I05
Latitude:	50.7033333333333
Longitude:	-117.501111111111

Key:	082KNW031
NAME:	BROADVIEW (L.1550) : ALPHA : OLD SONOMA : PHILLIPSBURG : CLIPPER
STATUS:	Past Producer
COMMODITYS:	PB ZN CU AG AU
DEP_TYPE:	I05
Latitude:	50.6966666666667
Longitude:	-117.494444444444

Key:	082KNW032
NAME:	OPHIR LADE : OPHIR (L.4721) : OLIVE MABLE FOUNDATION : PHILLIPSBURG : CLIPPER : OLIVE MABEL (L.4723) : FOUNDATION (L.4725) : GOLDENVILLE (L.4720)
STATUS:	Past Producer
COMMODITYS:	AU
DEP_TYPE:	I01
Latitude:	50.7383333333333
Longitude:	-117.336111111111

Key:	082KNW033
NAME:	BADSHOT (L.1105) : LIME MOUNTAIN
STATUS:	Past Producer
COMMODITYS:	AG PB
DEP_TYPE:	I05
Latitude:	50.74
Longitude:	-117.314444444444

Key:	082KNW034
NAME:	BLACK PRINCE (L.755)
STATUS:	Past Producer
COMMODITYS:	AG PB
DEP_TYPE:	I05
Latitude:	50.715
Longitude:	-117.269444444444

Key:	082KNW035

NAME:	MOHICAN : EARLY BIRD : PATHFINDER : MOHECAN (L.8706)
STATUS:	Past Producer
COMMODITYS:	AG PB AU
DEP_TYPE:	I05
Latitude:	50.695
Longitude:	-117.276111111111

Key:	082KNW036
NAME:	MOLLIE MAC : MOLLY MAC : LEAD STACK
STATUS:	Prospect
COMMODITYS:	AG PB ZN CU AU
Latitude:	50.6916666666667
Longitude:	-117.314444444444

Key:	082KNW037
NAME:	WHITE QUAIL (L.4577)
STATUS:	Prospect
COMMODITYS:	PB AG ZN AU
Latitude:	50.6866666666667
Longitude:	-117.302777777778

Key:	082KNW038
NAME:	INDEX (L.3956) : ROYAL R : RED CLIFF
STATUS:	Prospect
COMMODITYS:	PB
Latitude:	50.68
Longitude:	-117.291111111111

Key:	082KNW039
NAME:	SILVER CHIEF : MAY : SILVER CHIEF NO.2 (L.6476)
STATUS:	Prospect
COMMODITYS:	PB AG
Latitude:	50.6866666666667

Longitude:	-117.281111111111

Key:	082KNW040
NAME:	BEATRICE (L.4586) : EDMOND : FLORENCE : FOLSOM
STATUS:	Past Producer
COMMODITYS:	AG ZN PB AU
DEP_TYPE:	I05
Latitude:	50.735
Longitude:	-117.559444444444

Key:	082KNW041
NAME:	MOHAWK (L.4571) : MOWHAWK
STATUS:	Past Producer
COMMODITYS:	AG ZN PB
DEP_TYPE:	I05
Latitude:	50.78
Longitude:	-117.597777777778

Key:	082KNW042
NAME:	MOSCOW (L.4500)
STATUS:	Prospect
COMMODITYS:	AG PB ZN
DEP_TYPE:	I05
Latitude:	50.7816666666667
Longitude:	-117.594444444444

Key:	082KNW043
NAME:	EXCISE : EXERCISE
STATUS:	Prospect
COMMODITYS:	AG PB ZN
DEP_TYPE:	I05
Latitude:	50.775
Longitude:	-117.592777777778

Key:	082KNW044
NAME:	ECLIPSE (L.5170)
STATUS:	Showing
COMMODITYS:	PB ZN
DEP_TYPE:	I05
Latitude:	50.7766666666667
Longitude:	-117.601111111111

Key:	082KNW045
NAME:	SPIDER (L.15752) : SPIDER MINE : MULTIPLEX
STATUS:	Past Producer
COMMODITYS:	AG PB ZN AU CU CD SB
DEP_TYPE:	I05
Latitude:	50.7786111111111
Longitude:	-117.608888888889

Key:	082KNW046
NAME:	ST. JOE (L.5675)
STATUS:	Prospect
COMMODITYS:	PB
DEP_TYPE:	I05
Latitude:	50.7883333333333
Longitude:	-117.614444444444

Key:	082KNW047
NAME:	CONMORE (L.5677)
STATUS:	Prospect
COMMODITYS:	PB
DEP_TYPE:	I05
Latitude:	50.7916666666667
Longitude:	-117.609444444444

Key:	082KNW048

NAME:	SANDY (L.8719)
STATUS:	Prospect
COMMODITYS:	AG PB ZN AU
Latitude:	50.7816666666667
Longitude:	-117.619444444444

Key:	082KNW049
NAME:	BARCLAY
STATUS:	Showing
COMMODITYS:	PB ZN
Latitude:	50.78
Longitude:	-117.616111111111

Key:	082KNW050
NAME:	SHEEP CREEK : LARDEAU (L.3470)
STATUS:	Developed Prospect
COMMODITYS:	AG PB ZN AU SN
DEP_TYPE:	I05
Latitude:	50.6611111111111
Longitude:	-117.200277777778

Key:	082KNW058
NAME:	CROMWELL (L.13046) : TARZAN (l.13048)
STATUS:	Showing
COMMODITYS:	AU AG PB ZN CU AB
DEP_TYPE:	I05
Latitude:	50.6138888888889
Longitude:	-117.341388888889

Key:	082KNW059
NAME:	ETHEL : FRANCIS : FRANCES : NOEL : MAY DAY : SILVER CROWN
STATUS:	Past Producer
COMMODITYS:	AG PB ZN

DEP_TYPE:	I05
Latitude:	50.62
Longitude:	-117.582777777778

Key:	082KNW060
NAME:	BLUEBELL (L.5707)
STATUS:	Prospect
COMMODITYS:	PB AG ZN AU
DEP_TYPE:	I05
Latitude:	50.71
Longitude:	-117.499444444444

Key:	082KNW061
NAME:	GREAT NORTHERN (L.1099) : HILLSIDE : NORTHLAND : NORTHERN LIGHT
STATUS:	Past Producer
COMMODITYS:	PB AG ZN AU
DEP_TYPE:	I05
Latitude:	50.7016666666667
Longitude:	-117.501111111111

Key:	082KNW062
NAME:	ST. ELMO (L.4581)
STATUS:	Past Producer
COMMODITYS:	PB AG ZN AU
DEP_TYPE:	I05
Latitude:	50.7066666666667
Longitude:	-117.504444444444

Key:	082KNW063
NAME:	RED HORSE (L.8718) : DEL NORTE AND COLORADO : SIR WILFRED
STATUS:	Prospect
COMMODITYS:	AU AG PB
DEP_TYPE:	I05

Latitude:	50.7833333333333
Longitude:	-117.614444444444

Key:	082KNW064
NAME:	MERIDIAN : MERIDIAN FR. (L.8713)
STATUS:	Past Producer
COMMODITYS:	AU AG
DEP_TYPE:	I01
Latitude:	50.79
Longitude:	-117.619444444444

Key:	082KNW065
NAME:	OYSTER : CRITERION (L.5417)
STATUS:	Past Producer
COMMODITYS:	AU AG
DEP_TYPE:	I01
Latitude:	50.795
Longitude:	-117.619444444444

Key:	082KNW066
NAME:	EVA (L.5172)
STATUS:	Past Producer
COMMODITYS:	AU AG
DEP_TYPE:	I01
Latitude:	50.7966666666667
Longitude:	-117.629444444444

Key:	082KNW069
NAME:	TEDDY GLACIER : RITCHIE
STATUS:	Developed Prospect
COMMODITYS:	AG PB ZN AU CU
DEP_TYPE:	I05
Latitude:	50.8680555555556

Longitude:	-117.747777777778

Key:	082KNW070
NAME:	VIMY RIDGE : BELL
STATUS:	Showing
COMMODITYS:	AG PB ZN
DEP_TYPE:	I05
Latitude:	50.8666666666667
Longitude:	-117.732777777778

Key:	082KNW071
NAME:	LEAD STAR
STATUS:	Past Producer
COMMODITYS:	AG PB ZN AU CU
Latitude:	50.8633333333333
Longitude:	-117.684444444444

Key:	082KNW072
NAME:	BURNIERE : BODMIN : ST. MABYN
STATUS:	Prospect
COMMODITYS:	AU AG PB
DEP_TYPE:	I01
Latitude:	50.8533333333333
Longitude:	-117.694444444444

Key:	082KNW074
NAME:	MORNING STAR : ARGENTA
STATUS:	Prospect
COMMODITYS:	AG PB ZN CU AU
DEP_TYPE:	J01
Latitude:	50.8283333333333
Longitude:	-117.561111111111

Key:	082KNW076
NAME:	GOLDFINCH (L.5654) : DOROTHY (L.12481) : WINDFLOWER : CAMBORNE
STATUS:	Past Producer
COMMODITYS:	AU AG PB ZN CU
DEP_TYPE:	I05
Latitude:	50.8236111111111
Longitude:	-117.659444444444

Key:	082KNW077
NAME:	MAMMOTH (L.6473)
STATUS:	Past Producer
COMMODITYS:	AG PB AU ZN
Latitude:	50.8566666666667
Longitude:	-117.571111111111

Key:	082KNW078
NAME:	BIG SHOWING
STATUS:	Developed Prospect
COMMODITYS:	PB ZN AU AG
DEP_TYPE:	E13
Latitude:	50.8783333333333
Longitude:	-117.582777777778

Key:	082KNW079
NAME:	BLUE JAY (L.13482) : SNOWSTORM (L.13481) : MOUNTAIN VIEW (L.13477) : GLADSTONE (L.13480) : COPPER GLANCE (L.13483)
STATUS:	Past Producer
COMMODITYS:	PB ZN AG
DEP_TYPE:	E14
Latitude:	50.795
Longitude:	-117.411111111111

Key:	082KNW080
NAME:	SURPRISE (L.8661) : WELSH : AOELINA FR.

STATUS:	Prospect
COMMODITYS:	AG PB CU ZN
DEP_TYPE:	I05
Latitude:	50.7466666666667
Longitude:	-117.427777777778

Key:	082KNW081
NAME:	ELSMERE : PASS CADLE : ALBERTA : VICTOR : HELENSBURG
STATUS:	Prospect
COMMODITYS:	PB ZN
DEP_TYPE:	E14
Latitude:	50.7766666666667
Longitude:	-117.427777777778

Key:	082KNW082
NAME:	LITTLE ROBERT
STATUS:	Past Producer
COMMODITYS:	AG PB
DEP_TYPE:	I05
Latitude:	50.7866666666667
Longitude:	-117.431111111111

Key:	082KNW083
NAME:	METROPOLITAN : METROPOLITAN FR. (L.5331)
STATUS:	Past Producer
COMMODITYS:	AG PB ZN AU
DEP_TYPE:	I05
Latitude:	50.7983333333333
Longitude:	-117.464444444444

Key:	082KNW084
NAME:	BIG FIVE
STATUS:	Prospect

COMMODITYS:	AG PB ZN CU AU SB
DEP_TYPE:	J01
Latitude:	50.8066666666667
Longitude:	-117.481111111111

Key:	082KNW087
NAME:	TROUT LAKE
STATUS:	Developed Prospect
COMMODITYS:	MO WO PB ZN CU
DEP_TYPE:	L05
Latitude:	50.6388888888889
Longitude:	-117.603611111111

Key:	082KNW088
NAME:	VMS 9
STATUS:	Showing
COMMODITYS:	CU
DEP_TYPE:	K02
Latitude:	50.5816666666667
Longitude:	-117.602777777778

Key:	082KNW089
NAME:	VMS 19
STATUS:	Showing
COMMODITYS:	CU PB ZN MO
DEP_TYPE:	K01
Latitude:	50.5833333333333
Longitude:	-117.591111111111

Key:	082KNW090
NAME:	VMS 21
STATUS:	Showing
COMMODITYS:	PB ZN CU

DEP_TYPE:	I05
Latitude:	50.58
Longitude:	-117.586111111111

Key:	082KNW091
NAME:	VMS 23
STATUS:	Showing
COMMODITYS:	PB ZN MO
Latitude:	50.5783333333333
Longitude:	-117.579444444444

Key:	082KNW092
NAME:	VMS 1
STATUS:	Showing
COMMODITYS:	PB ZN
DEP_TYPE:	I05
Latitude:	50.57
Longitude:	-117.591111111111

Key:	082KNW093
NAME:	VMS 2
STATUS:	Showing
COMMODITYS:	PB ZN MO
DEP_TYPE:	I05
Latitude:	50.565
Longitude:	-117.587777777778

Key:	082KNW095
NAME:	BUTT : BONANZA KING (L.14178) : GALLANT BOY (L.14179) : KING
STATUS:	Prospect
COMMODITYS:	AG AU PB ZN CU
DEP_TYPE:	I05
Latitude:	50.56

Longitude:	-117.276111111111

Key:	082KNW097
NAME:	OAKEY : MIKE
STATUS:	Past Producer
COMMODITYS:	PB ZN AG AU
DEP_TYPE:	I05
Latitude:	50.6483333333333
Longitude:	-117.562777777778

Key:	082KNW098
NAME:	MORNING STAR
STATUS:	Prospect
COMMODITYS:	AG AU PB
DEP_TYPE:	I05
Latitude:	50.6233333333333
Longitude:	-117.346111111111

Key:	082KNW099
NAME:	AJAX (L.4955)
STATUS:	Past Producer
COMMODITYS:	AG AU ZN PB
DEP_TYPE:	I05
Latitude:	50.6883333333333
Longitude:	-117.454444444444

Key:	082KNW100
NAME:	NETTIE L. (L.4954)
STATUS:	Past Producer
COMMODITYS:	AG PB ZN AU CU GT
DEP_TYPE:	I05
Latitude:	50.6883333333333
Longitude:	-117.449444444444

Key:	082KNW101
NAME:	SILVER DOLLAR : OLD ABE : CARBONATE HILL (L.7060) : SILVER PASS
STATUS:	Past Producer
COMMODITYS:	AU PB CU AG ZN
DEP_TYPE:	I05
Latitude:	50.7483333333333
Longitude:	-117.567777777778

Key:	082KNW103
NAME:	JEWEL : JEWELL
STATUS:	Showing
COMMODITYS:	PB ZN
DEP_TYPE:	I05
Latitude:	50.59
Longitude:	-117.324444444444

Key:	082KNW104
NAME:	HERCULES
STATUS:	Prospect
COMMODITYS:	AG PB ZN CU
DEP_TYPE:	I05
Latitude:	50.59
Longitude:	-117.307777777778

Key:	082KNW105
NAME:	MAR
STATUS:	Showing
COMMODITYS:	MO
DEP_TYPE:	*
Latitude:	50.6833333333333
Longitude:	-117.701111111111

Key:	082KNW106

NAME:	HIDDEN TREASURE
STATUS:	Prospect
COMMODITYS:	AG PB ZN
DEP_TYPE:	J01
Latitude:	50.6866666666667
Longitude:	-117.299444444444

Key:	082KNW107
NAME:	ESCALADE : OASIS
STATUS:	Showing
COMMODITYS:	WO
DEP_TYPE:	K05
Latitude:	50.9266666666667
Longitude:	-117.424444444444

Key:	082KNW108
NAME:	NEW ZONE COPPER
STATUS:	Prospect
COMMODITYS:	CU NI
DEP_TYPE:	I05
Latitude:	50.6883333333333
Longitude:	-117.454444444444

Key:	082KNW109
NAME:	FREE COINAGE (L.1588)
STATUS:	Prospect
COMMODITYS:	AG PB ZN
DEP_TYPE:	I05
Latitude:	50.6333333333333
Longitude:	-117.364444444444

Key:	082KNW110
NAME:	BLACK WARRIOR (L.10646) : WHITE STAR (L.11330) : EVA MAY (L.10647)

STATUS:	Prospect
COMMODITYS:	AG PB CU
DEP_TYPE:	I05
Latitude:	50.79
Longitude:	-117.419444444444

Key:	082KNW111
NAME:	SILVER PLATE
STATUS:	Prospect
COMMODITYS:	AG PB
Latitude:	50.555
Longitude:	-117.319444444444

Key:	082KNW112
NAME:	BONANZA
STATUS:	Prospect
COMMODITYS:	AU AG
DEP_TYPE:	I05
Latitude:	50.5633333333333
Longitude:	-117.282777777778

Key:	082KNW113
NAME:	SKYLINE
STATUS:	Prospect
COMMODITYS:	AU AG PB
DEP_TYPE:	I05
Latitude:	50.565
Longitude:	-117.337777777778

Key:	082KNW115
NAME:	ARALLU
STATUS:	Prospect
COMMODITYS:	CU

Latitude:	50.5666666666667
Longitude:	-117.346111111111

Key:	082KNW116
NAME:	GOLDEN CROWN
STATUS:	Prospect
COMMODITYS:	AU AG PB
DEP_TYPE:	I05
Latitude:	50.5666666666667
Longitude:	-117.352777777778

Key:	082KNW117
NAME:	FOGGY DAY : BRONZE
STATUS:	Past Producer
COMMODITYS:	AU AG PB ZN CU
DEP_TYPE:	I05
Latitude:	50.5916666666667
Longitude:	-117.359444444444

Key:	082KNW118
NAME:	IXL : OK
STATUS:	Past Producer
COMMODITYS:	AG AU PB ZN
DEP_TYPE:	I05
Latitude:	50.6233333333333
Longitude:	-117.336111111111

Key:	082KNW119
NAME:	CHANCE
STATUS:	Prospect
COMMODITYS:	AG AU PB ZN CU
DEP_TYPE:	I05
Latitude:	50.6216666666667

Longitude:	-117.342777777778

Key:	082KNW120
NAME:	YUILL
STATUS:	Prospect
COMMODITYS:	AG PB ZN AU
DEP_TYPE:	I05
Latitude:	50.6566666666667
Longitude:	-117.387777777778

Key:	082KNW121
NAME:	GUS
STATUS:	Showing
COMMODITYS:	AU AG
DEP_TYPE:	I05
Latitude:	50.67
Longitude:	-117.443333333333

Key:	082KNW123
NAME:	HOMESTAKE
STATUS:	Prospect
COMMODITYS:	PB
DEP_TYPE:	I05
Latitude:	50.6216666666667
Longitude:	-117.581111111111

Key:	082KNW124
NAME:	ALMA : AICE : ALMA NO. 2 : ALICE
STATUS:	Prospect
COMMODITYS:	AG PB ZN
DEP_TYPE:	J01
Latitude:	50.805
Longitude:	-117.542777777778

Key:	082KNW125
NAME:	MOLY
STATUS:	Showing
COMMODITYS:	AU AG PB ZN
DEP_TYPE:	E14
Latitude:	50.6733333333333
Longitude:	-117.367777777778

Key:	082KNW126
NAME:	DEL REY
STATUS:	Prospect
COMMODITYS:	AU AG
DEP_TYPE:	I01
Latitude:	50.7783333333333
Longitude:	-117.594444444444

Key:	082KNW127
NAME:	GILMAN : GILLMAN : GILMAN FR.
STATUS:	Past Producer
COMMODITYS:	AU AG PB ZN
DEP_TYPE:	I05
Latitude:	50.745
Longitude:	-117.559444444444

Key:	082KNW128
NAME:	OLD GOLD
STATUS:	Past Producer
COMMODITYS:	AG PB
DEP_TYPE:	I05
Latitude:	50.765
Longitude:	-117.384444444444

Key:	082KNW129

NAME:	WIDE WEST (L.15771)
STATUS:	Prospect
COMMODITYS:	AU AG CU PB ZN
DEP_TYPE:	I05
Latitude:	50.815
Longitude:	-117.512777777778

Key:	082KNW130
NAME:	BLACK BEAR (L.5086) : KANGAROO
STATUS:	Prospect
COMMODITYS:	PB
DEP_TYPE:	I05
Latitude:	50.7883333333333
Longitude:	-117.512777777778

Key:	082KNW131
NAME:	MOUNTAIN BOY (L. 2495)
STATUS:	Prospect
COMMODITYS:	AG PB
DEP_TYPE:	I05
Latitude:	50.7516666666667
Longitude:	-117.569444444444

Key:	082KNW132
NAME:	AGNES
STATUS:	Showing
COMMODITYS:	AU AG CU
DEP_TYPE:	I01
Latitude:	50.8633333333333
Longitude:	-117.709444444444

Key:	082KNW133
NAME:	SUNSET (L.1970)

STATUS:	Prospect
COMMODITYS:	AG
DEP_TYPE:	I05
Latitude:	50.8333333333333
Longitude:	-117.674444444444

Key:	082KNW134
NAME:	GLENGARY (L.1971) : PRINCE EDWARD (L.1973) : BANWELL FR. : DEWEY
STATUS:	Past Producer
COMMODITYS:	AG PB CU
DEP_TYPE:	I05
Latitude:	50.8183333333333
Longitude:	-117.452777777778

Key:	082KNW135
NAME:	KOOTENAY CHIEF (L.2147) : TARMACAN : TAMARCAN (L.2151) : WINNIPEG (L.2150)
STATUS:	Past Producer
COMMODITYS:	AG PB
DEP_TYPE:	I05
Latitude:	50.8316666666667
Longitude:	-117.464444444444

Key:	082KNW136
NAME:	IRON DOLLAR (L.7059)
STATUS:	Prospect
COMMODITYS:	PB AU AG
DEP_TYPE:	I05
Latitude:	50.7433333333333
Longitude:	-117.557777777778

Key:	082KNW137
NAME:	HUNTER : TRAPPER
STATUS:	Prospect

COMMODITYS:	AG PB
Latitude:	50.8216666666667
Longitude:	-117.544444444444

Key:	082KNW138
NAME:	NELSON
STATUS:	Prospect
COMMODITYS:	AU AG
DEP_TYPE:	I05
Latitude:	50.8266666666667
Longitude:	-117.682777777778

Key:	082KNW139
NAME:	SCOUT
STATUS:	Prospect
COMMODITYS:	PB AG ZN AU
DEP_TYPE:	I05
Latitude:	50.8683333333333
Longitude:	-117.577777777778

Key:	082KNW140
NAME:	CRESCENT
STATUS:	Prospect
COMMODITYS:	AG PB AU
DEP_TYPE:	I05
Latitude:	50.6133333333333
Longitude:	-117.397777777778

Key:	082KNW141
NAME:	GLENSIDE (L.4281) : COMMONWEALTH : OGONTZ
STATUS:	Prospect
COMMODITYS:	PB AG
DEP_TYPE:	I05

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Latitude:	50.7533333333333
Longitude:	-117.442777777778

Key:	082KNW142
NAME:	H.Y.M.
STATUS:	Past Producer
COMMODITYS:	AG PB
DEP_TYPE:	I05
Latitude:	50.6133333333333
Longitude:	-117.331111111111

Key:	082KNW143
NAME:	CHOLLA (L.5399) : TREADWELL : DORA : L.V.FR. : CHOLLER : THELMA (L.5183)
STATUS:	Prospect
COMMODITYS:	AU
DEP_TYPE:	I01
Latitude:	50.7933333333333
Longitude:	-117.632777777778

Key:	082KNW146
NAME:	PIPESTEM
STATUS:	Showing
COMMODITYS:	AU AG PB ZN
DEP_TYPE:	I05
Latitude:	50.7833333333333
Longitude:	-117.607777777778

Key:	082KNW147
NAME:	CRAIG
STATUS:	Showing
COMMODITYS:	AG PB AU
DEP_TYPE:	I05
Latitude:	50.6

Longitude:	-117.551111111111

Key:	082KNW148
NAME:	KIT SUP (L. 3500) : KITSAP
STATUS:	Prospect
COMMODITYS:	AG PB
DEP_TYPE:	J01
Latitude:	50.8133333333333
Longitude:	-117.552777777778

Key:	082KNW149
NAME:	RAINY DAY
STATUS:	Showing
COMMODITYS:	CU
Latitude:	50.7333333333333
Longitude:	-117.551111111111

Key:	082KNW150
NAME:	SILVER QUEEN : SILVER KING
STATUS:	Past Producer
COMMODITYS:	AG PB
DEP_TYPE:	I05
Latitude:	50.7083333333333
Longitude:	-117.502777777778

Key:	082KNW151
NAME:	SILVER QUEEN (L.4694) : SILVER KING (L.4695)
STATUS:	Showing
COMMODITYS:	AG PB AU
DEP_TYPE:	I05
Latitude:	50.7716666666667
Longitude:	-117.391111111111

Key:	082KNW152
NAME:	BLACK DIAMOND NO. 1 (L.4286) : BLACK DIAMOND NO. 2 (L.4287) : BLACK DIAMOND FR. (L.4291)
STATUS:	Prospect
COMMODITYS:	AG PB
DEP_TYPE:	J01
Latitude:	50.7966666666667
Longitude:	-117.444444444444

Key:	082KNW153
NAME:	NOBLE FIVE : NOBLE FOUR
STATUS:	Past Producer
COMMODITYS:	AG AU PB ZN
DEP_TYPE:	I05
Latitude:	50.6166666666667
Longitude:	-117.342777777778

Key:	082KNW154
NAME:	COPPER MOUNTAIN
STATUS:	Showing
COMMODITYS:	CU
DEP_TYPE:	I05
Latitude:	50.7316666666667
Longitude:	-117.402777777778

Key:	082KNW155
NAME:	MABLE : RAINY LAKE : VIRGINIA : NORA LEE
STATUS:	Prospect
COMMODITYS:	CU PB
DEP_TYPE:	I05
Latitude:	50.6066666666667
Longitude:	-117.361111111111

Key:	082KNW156

NAME:	GLOOSCAP (L. 7257) : GLASSCAP : GLOSSCUP : GLASCAP : GLOOSCAP NO. 2 (L.7258) : GLOOSCAP NO. 3 (L.7259)
STATUS:	Showing
COMMODITYS:	PB AG
DEP_TYPE:	I05
Latitude:	50.68
Longitude:	-117.434444444444

Key:	082KNW158
NAME:	SHARON : OLD RELIABLE
STATUS:	Prospect
COMMODITYS:	AG PB
DEP_TYPE:	I05
Latitude:	50.6466666666667
Longitude:	-117.392777777778

Key:	082KNW159
NAME:	SILVER BELT (L.5695) : AGNES : WHISTLER (L.7433)
STATUS:	Past Producer
COMMODITYS:	AU AG PB
DEP_TYPE:	I05
Latitude:	50.6133333333333
Longitude:	-117.324444444444

Key:	082KNW160
NAME:	CANADIAN GIRL (L.4705)
STATUS:	Prospect
COMMODITYS:	AG PB ZN
DEP_TYPE:	I05
Latitude:	50.7483333333333
Longitude:	-117.384444444444

Key:	082KNW161
NAME:	LEXINGTON (L.3088) : BELLINGHAM : BRODIE : LONE STAR (L.3091)

STATUS:	Prospect
COMMODITYS:	AG PB
Latitude:	50.8416666666667
Longitude:	-117.624444444444

Key:	082KNW162
NAME:	NELLIE (L.5670) : DOM PAUL : NELLIE FRAC. (L.5674) : EMPRESS (L.5671) : KITTY (L.5672)
STATUS:	Prospect
COMMODITYS:	PB AG
Latitude:	50.8416666666667
Longitude:	-117.584444444444

Key:	082KNW163
NAME:	BANNER (L.3085) : IOLA
STATUS:	Prospect
COMMODITYS:	AG PB ZN
Latitude:	50.825
Longitude:	-117.567777777778

Key:	082KNW164
NAME:	BLACK DIAMOND (L. 5680)
STATUS:	Prospect
COMMODITYS:	AG PB ZN
Latitude:	50.81
Longitude:	-117.551111111111

Key:	082KNW165
NAME:	ALICE (L.7440)
STATUS:	Prospect
COMMODITYS:	AU
DEP_TYPE:	I05
Latitude:	50.6083333333333
Longitude:	-117.361111111111

Key:	082KNW166
NAME:	ST. LEWIS (L.7261)
STATUS:	Prospect
COMMODITYS:	AG PB ZN
DEP_TYPE:	I05
Latitude:	50.7733333333333
Longitude:	-117.409444444444

Key:	082KNW168
NAME:	KINGSTON (L.6558) : ISHPEMING FR. (L.6557) : HOUGHTON (L.6556) : MAGGIE R. (L.6553)
STATUS:	Prospect
COMMODITYS:	AU
DEP_TYPE:	I01
Latitude:	50.8
Longitude:	-117.626111111111

Key:	082KNW169
NAME:	SILVER TRAY
STATUS:	Prospect
COMMODITYS:	AG PB
DEP_TYPE:	I05
Latitude:	50.56
Longitude:	-117.294444444444

Key:	082KNW170
NAME:	MAY BEE (L.4953) : MAY B : MAY BE
STATUS:	Prospect
COMMODITYS:	AG PB ZN
DEP_TYPE:	I05
Latitude:	50.6916666666667
Longitude:	-117.451111111111

Key:	082KNW174
NAME:	BRUNSWICK
STATUS:	Prospect
COMMODITYS:	AU
Latitude:	50.8033333333333
Longitude:	-117.624444444444

Key:	082KNW175
NAME:	BLACKBURN
STATUS:	Prospect
COMMODITYS:	PB AG AU
DEP_TYPE:	I05
Latitude:	50.77
Longitude:	-117.444444444444

Key:	082KNW177
NAME:	WARD (L.3479) : LAURA J. (L.3478)
STATUS:	Prospect
COMMODITYS:	AG PB ZN AU
DEP_TYPE:	I05
Latitude:	50.655
Longitude:	-117.200555555556

Key:	082KNW178
NAME:	GUS
STATUS:	Showing
COMMODITYS:	PB ZN
DEP_TYPE:	I05
Latitude:	50.6166666666667
Longitude:	-117.292777777778

Key:	082KNW180
NAME:	HARVEY

STATUS:	Prospect
COMMODITYS:	AU
DEP_TYPE:	I05
Latitude:	50.7883333333333
Longitude:	-117.591111111111

Key:	082KNW185
NAME:	TRILBY
STATUS:	Prospect
COMMODITYS:	PB
DEP_TYPE:	I05
Latitude:	50.9016666666667
Longitude:	-117.704444444444

Key:	082KNW186
NAME:	IMPERIAL (L.4778) : BALFOUR (L.4777) : ROSSLAND (L.4775)
STATUS:	Prospect
COMMODITYS:	AU AG
DEP_TYPE:	I05
Latitude:	50.8
Longitude:	-117.629444444444

Key:	082KNW187
NAME:	LUCKY JACK : ALAMO : JJ DAVIS FR. : SLEVE-NA-MON
STATUS:	Past Producer
COMMODITYS:	AU AG
DEP_TYPE:	I01
Latitude:	50.7916666666667
Longitude:	-117.609444444444

Key:	082KNW188
NAME:	ANACONDA (L.4710)
STATUS:	Prospect

COMMODITYS:	AU CU
DEP_TYPE:	I05
Latitude:	50.7733333333333
Longitude:	-117.416111111111

Key:	082KNW189
NAME:	ROYAL CANADIAN
STATUS:	Showing
COMMODITYS:	AU
Latitude:	50.6716666666667
Longitude:	-117.849444444444

Key:	082KNW190
NAME:	LARDEAU-GOLDSMITH
STATUS:	Prospect
COMMODITYS:	AG
DEP_TYPE:	I05
Latitude:	50.7916666666667
Longitude:	-117.574444444444

Key:	082KNW195
NAME:	LOST CUP
STATUS:	Showing
COMMODITYS:	AG PB
DEP_TYPE:	I05
Latitude:	50.8316666666667
Longitude:	-117.661111111111

Key:	082KNW196
NAME:	PAYMASTER
STATUS:	Prospect
COMMODITYS:	AG PB ZN
Latitude:	50.8416666666667

Longitude:	-117.617777777778

Key:	082KNW197
NAME:	DAFFODIL : WILD FLOWER : PRIMROSE : BLUE BELL
STATUS:	Prospect
COMMODITYS:	PB
Latitude:	50.83
Longitude:	-117.582777777778

Key:	082KNW198
NAME:	UNITED VICTORY
STATUS:	Showing
COMMODITYS:	WO
DEP_TYPE:	K05
Latitude:	50.91
Longitude:	-117.564444444444

Key:	082KNW199
NAME:	YELLOWJACKET
STATUS:	Showing
COMMODITYS:	PB CU
DEP_TYPE:	I05
Latitude:	50.7883333333333
Longitude:	-117.641111111111

Key:	082KNW202
NAME:	ROYAL : UTOPIA : LARDEAU KING : KISMET : LARDEAU QUEEN
STATUS:	Prospect
COMMODITYS:	AG PB
Latitude:	50.815
Longitude:	-117.567777777778

Key:	082KNW203

NAME:	SUNSET
STATUS:	Prospect
COMMODITYS:	AG PB
DEP_TYPE:	I05
Latitude:	50.7766666666667
Longitude:	-117.464444444444

Key:	082KNW204
NAME:	SILVER LEAF
STATUS:	Prospect
COMMODITYS:	AG PB
Latitude:	50.7616666666667
Longitude:	-117.359444444444

Key:	082KNW205
NAME:	EDNA AND GRACE C
STATUS:	Prospect
COMMODITYS:	AG PB
Latitude:	50.7483333333333
Longitude:	-117.359444444444

Key:	082KNW207
NAME:	STAUBERT LAKE
STATUS:	Showing
COMMODITYS:	PB
DEP_TYPE:	I05
Latitude:	50.6733333333333
Longitude:	-117.616111111111

Key:	082KNW209
NAME:	ABRAHAMSON : NORTH STAR : QUEEN OF THE HILLS : CRYSTAL
STATUS:	Prospect
COMMODITYS:	AG AU

DEP_TYPE:	I05
Latitude:	50.6783333333333
Longitude:	-117.457777777778

Key:	082KNW210
NAME:	HORNE : HORNE LEDGE
STATUS:	Showing
COMMODITYS:	AG
DEP_TYPE:	I05
Latitude:	50.725
Longitude:	-117.449444444444

Key:	082KNW211
NAME:	JUMBO : UNION JACK
STATUS:	Prospect
COMMODITYS:	AG PB
DEP_TYPE:	I05
Latitude:	50.6716666666667
Longitude:	-117.417777777778

Key:	082KNW212
NAME:	WAGNER : DUNCAN (L.3472) : DUNCAN KNOB
STATUS:	Developed Prospect
COMMODITYS:	AG PB ZN AU CU SN
DEP_TYPE:	I05
Latitude:	50.6677777777778
Longitude:	-117.206944444444

Key:	082KNW214
NAME:	ALPINE
STATUS:	Prospect
COMMODITYS:	AG AU PB ZN
DEP_TYPE:	I05

Latitude:	50.5883333333333
Longitude:	-117.359444444444

Key:	082KNW215
NAME:	AMERICAN
STATUS:	Past Producer
COMMODITYS:	AG PB
DEP_TYPE:	I05
Latitude:	50.5616666666667
Longitude:	-117.271111111111

Key:	082KNW216
NAME:	ADVENTURE : CASCADE : IRON CAP : GOLD CAP
STATUS:	Showing
COMMODITYS:	AU
DEP_TYPE:	I01
Latitude:	50.9
Longitude:	-117.749444444444

Key:	082KNW217
NAME:	TIN : MCDOUGAL CK
STATUS:	Showing
COMMODITYS:	SN
DEP_TYPE:	I13
Latitude:	50.9983333333333
Longitude:	-117.632777777778

Key:	082KNW218
NAME:	NELSON
STATUS:	Showing
COMMODITYS:	AU AG
DEP_TYPE:	I01
Latitude:	50.8333333333333

Longitude:	-117.676111111111

Key:	082KNW220
NAME:	COPPER
STATUS:	Showing
COMMODITYS:	CU
Latitude:	50.5783333333333
Longitude:	-117.301111111111

Key:	082KNW221
NAME:	CULKEEN
STATUS:	Showing
COMMODITYS:	AU
DEP_TYPE:	C01
Latitude:	50.6616666666667
Longitude:	-117.352777777778

Key:	082KNW222
NAME:	SILVER CUP
STATUS:	Showing
COMMODITYS:	TC AB
DEP_TYPE:	E08
Latitude:	50.6
Longitude:	-117.342777777778

Key:	082KNW223
NAME:	VERA (L.4283) : ALBERTA (L.4285) : JOSIE (L.4284)
STATUS:	Prospect
COMMODITYS:	PB AG
DEP_TYPE:	I05
Latitude:	50.75
Longitude:	-117.434444444444

Key:	082KSW124
NAME:	CORNWALL : RB : NADECO : COPPER HORN : CAPE HORN
STATUS:	Showing
COMMODITYS:	CU
DEP_TYPE:	K01
Latitude:	50.3427777777778
Longitude:	-117.871111111111

Key:	082KSW185
NAME:	PRINCE : COACHMAN
STATUS:	Showing
COMMODITYS:	PB AG AU
DEP_TYPE:	I05
Latitude:	50.2563888888889
Longitude:	-117.813611111111

Key:	082N 013
NAME:	DUNVEGAN : ALMA
STATUS:	Prospect
COMMODITYS:	PB AG ZN
DEP_TYPE:	I05
Latitude:	51.1197222222222
Longitude:	-117.615555555556

Key:	082N 029
NAME:	EDINBURGH : EDINBURGH (L.2867) : RYCKMAN CREEK : SILVER
STATUS:	Prospect
COMMODITYS:	PB AG ZN
DEP_TYPE:	I05
Latitude:	51.0969444444444
Longitude:	-117.585277777778

Key:	082N 030

NAME:	ELIZABETH (L.2785) : RYCKMAN CREEK : SILVER
STATUS:	Prospect
COMMODITYS:	PB AG ZN
DEP_TYPE:	I05
Latitude:	51.0925
Longitude:	-117.583055555556

Key:	082N 031
NAME:	SCOTIA : SCOTIA (L.2784) : RYCKMAN CREEK : SILVER
STATUS:	Prospect
COMMODITYS:	PB AG ZN
DEP_TYPE:	I05
Latitude:	51.0875
Longitude:	-117.5825

Key:	082N 032
NAME:	ANNIE : RYCKMAN CREEK : SILVER
STATUS:	Prospect
COMMODITYS:	PB AG ZN
DEP_TYPE:	I05
Latitude:	51.0838888888889
Longitude:	-117.581666666667

Key:	082N 033
NAME:	AGNES : RYCKMAN CREEK : SILVER
STATUS:	Prospect
COMMODITYS:	PB AG ZN
DEP_TYPE:	I05
Latitude:	51.0788888888889
Longitude:	-117.724166666667

Key:	082N 034
NAME:	HERONBACK : HERRINGBACK : RYKMAN CREEK : SILVER

Mineral File Report

Key:	082ENE045
NAME:	NOVE 1 : FRANKLIN CAMP
STATUS:	Showing
COMMODITYS:	AG CU PB AU
DEP_TYPE:	L04
Latitude:	49.6263888888889
Longitude:	-118.300277777778

Key:	082ENE065
NAME:	COMPLETER (L.7309) : COMPLETER : ARROW LAKE : DAVE
STATUS:	Showing
COMMODITYS:	AG PB ZN
DEP_TYPE:	I05
Latitude:	49.8275
Longitude:	-118.062222222222

Key:	082ESE105
NAME:	MOUNTAIN CHIEF (L.2393)
STATUS:	Past Producer
COMMODITYS:	CU AG AU
DEP_TYPE:	K01
Latitude:	49.4083333333333
Longitude:	-118.101111111111

Key:	082ESE211
NAME:	BROADWATER
STATUS:	Past Producer
COMMODITYS:	LS
DEP_TYPE:	R09
Latitude:	49.4672222222222
Longitude:	-118.086388888889