RUN DATE: 04/26/96 RUN TIME: 13:57:41

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## 001062

MINFILE / pc MASTER REPORT GEOLOGICAL SURVEY BRANCH - MINERAL RESOURCES DIVISION MINISTRY OF ENERGY, MINES AND PETROLEUM RESOURCES

| MINFILE NUMBER:  | 082ESE242   | NATIONAL M  | IINERAL INVENTORY:   |
|--|---|---|--|
| NAME(S):   | PICTURE ROCK  |   |  |
| STATUS:<br>NTS MAP:<br>LATITUDE:<br>LONGITUDE:<br>LOCATION ACCURACY: | Producer<br>082E02E<br>49 42 18<br>118 47 48<br>Within 500M   | Underground   | MINING DIVISION: Greenwood<br>UTM ZONE: 11<br>NORTHING: 5907163<br>EASTING: 370451   |
| COMMODITIES:   | Gemstones Agate   |   |  |
| MINERALS<br>SIGNIFICANT:<br>MINERALIZATION AGE:                      | Chalcedony  |   |  |
| DEPOSIT<br>CHARACTER:<br>CLASSIFICATION:                             | Vein<br>Hydrothermal Epigenetic   | Industrial Min.   |  |
| HOST ROCK<br>DOMINANT HOST ROCK:                                     | Maplutonic  |   |  |
| <u>STRATIGRAPHIC AGE</u><br>Paleozoic<br>Unknown                     | GROUP   | FORMATION<br>Unnamed/Unknown Formation  | IGNEOUS/METAMORPHIC/OTHER<br>Ultramafic Intrusions   |
| LITHOLOGY:   | Listwanite<br>Serpentinite<br>Feldspar Porphyry Dike  |   |  |
| GEOLOGICAL SETTING<br>TECTONIC BELT:<br>TERRANE:                     | Intermontane<br>Quesnel   |   |  |
| CAPSULE GEOLOGY  |   |   |  |
|  | power line (Lat. 49 degrees, 00<br>is by a dirt road to the power<br>on Highway 3, west of Midway.<br>Midway mine from which about 14<br>zinc credits was shipped in the<br>Rainbow claims covering the ar-<br>precious metal potential by Der<br>resources in 1983, Kerr Addiso<br>Canada Ltd. from 1987 to 1989 J<br>1990). Through this period to<br>been obtained from the Picture<br>At the Picture Rock Quarry ep<br>serpentinite (listwanite) and<br>actually a group of small deta<br>over a radius of several tens<br>The veins are generally narrow<br>shallow dipping to the east an<br>delicately banded in white, gr-<br>that are developed parallel to<br>breccia clasts (Photo 3). Exc<br>floor of the main pit, which h<br>dickite several centimetres th<br>veining. The veins have epith<br>signatures, with anomalous but<br>(Lee, 1990).<br>The Picture Rock chaledonic of<br>manufacture of clock faces and<br>bluish-green colour of some of<br>to the presence of nickel, as<br>ultramafic and listwanitic hos<br>of the bluish vein material yi<br>elements, possibly contributin<br>94 ppm manganese, 0.46 per cen<br>chromium, 100 ppm niobium, and | 2.3', Long. 118 degrees 47.3'<br>line from the former railway<br>The quarry is 500 metres so<br>9 tonnes of Ag-Au ore with<br>e late 1960's and early 1970<br>ea have been explored for Li<br>ntonia Resources and Kettle<br>n Mines Ltd. in 1984, BP Re-<br>and Minnova Inc. in 1989 and<br>present, ornamental chalced<br>Rock locality for lapidary<br>othermal chalcedonic veins<br>feldspar porphyry dikes. The<br>ched and interconnected pits<br>of metres on the crest of a<br>(up to 50 centimetres wide<br>d northeast. Typically the<br>ey, light blue and blue-gre-<br>the veins walls or around<br>ept for the largest veins,<br>as a hanging wall composed for<br>ick, walls are a little alt<br>ermal gold, silver, arsenic<br>subeconomic precious metal<br>uuartz has proven attractive<br>ornaments by local artisan<br>the chalcedony was thought<br>chrysophrase, derived from<br>t rocks. However, analysis<br>elded only 15 ppm nickel.<br>g to the colour, include 71<br>t iron, 538 ppm strontium,<br>641 ppm tungsten. | Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Albertailer<br>Alber |
| BIBLIOGRAPHY   | EMPR Exploration in BC, 1995,   | (in preparation)  |  |
| DATE CODED:<br>DATE REVISED:   | 960420  | CODED BY: NC<br>REVISED BY:   | FIELD CHECK: Y<br>FIELD CHECK: N   |
|  |   |   | MINFILE NUMBER: 082E5E242  |

|   |  | TIFICATION   | 1. Lala azoi   | ATIGRAPHIC AGE*  |
|---|--|--|--|--|
| MINFILE NO.*: 082ESE  | 242 TAG JATERIA  | NAME*: /   | Picture K  | CAL TEM OUN  |
| STATUS*(Choose One):  | (Rank  | (ed up to 16)  |  |  |
| Anomaly (use as a temporal  | ry occurrence)   | is mark's  | HC/OTHER L/H   | EOUS/METAMOREI   |
| Showing   |  | 1  |  | ATIGRAPHIC AGE*  |
| Prospect  | ATERIAL DATED:   | 1  |  | ING METHOD:  |
| Developed Prospect  | MINING METHOD (Cho   | ose One):  |  |  |
| Producer  | Open Pit   | OLOGIOAL S   | 10 m   | na na sana na   |
| Past Producer   | Underground  |  |  |  |
| havele  |  | OCATION*   |  |  |
| NTS MAP*(Ranked, up to 4):  | 2 E2   |  | In teach in  | BN IDITICITI   |
| MINING DIVISION*: Gre   | enwood   | 25.4.8 Mc 6-   | wet i  | ANE (Hankes, up to 2)  |
| <u> </u>  | ,  | UTM ZONE*:   | and the second secon                                    |  |
| LATITUDE*: 49 º 22  | .3. 18 " or  | NORTHING*:   |  | _  |
| LONGITUDE*: 118 ° 47.   | 8, 48 "  | EASTING*:  | :Iveza   | (Use generic name for a  |
| ELEVATION*:   | (metres) LOCATI  | ON CERTAINTY*:   | 🕽 Within 500 m 🗖 Wit   | hin 1 km 🗖 Within 5  |
| IDENTIFICATION COMMENTS (U  | nlimited space <sup>!</sup> ):   | and the second   |  |  |
|   | M 96 YY CODED  | BY*: N. China  | FIELD CHE  |  |
| DATE REVISED**DDN   | IM YY REVISE   | D BY*:   | FIELD CHE  |  |
| AUG Proceed 010   | O tirtle tand //a  | uca Report Contention  | TOF Report Solar So  | ent GITTO be   |
|   |  |  |  |  |
| SIGNIFICANT* (Ranked, up to 16):  | chalced  | long   | 10   |  |
| SIGNIFICANT* (Ranked, up to 16):  | chalced  | lony   | CL<br>location and history; region   | (Include comments on   |
| SIGNIFICANT* (Ranked, up to 16):  | chalced  | DEPOSIT  | CL<br>location and history, region   | (Include comments da   |
| SIGNIFICANT* (Ranked, up to 16):<br>CHARACTER* (Ranked, up to 4):   | Stockwork  | DEPOSIT<br>Breccia   | Pipe   | Unconsolidate  |
| SIGNIFICANT* (Ranked, up to 16):<br>CHARACTER* (Ranked, up to 4):   | Stockwork  | DEPOSIT<br>Breccia<br>Stratabound  | Pipe<br>Stratiform   | Unconsolidate  |
| SIGNIFICANT* (Ranked, up to 16):<br>CHARACTER* (Ranked, up to 4):<br>Vein   | Stockwork  | DEPOSIT<br>Breccia<br>Stratabound<br>Disseminated  | Pipe<br>Stratiform<br>Shear  | Unconsolidate  |
| SIGNIFICANT* (Ranked, up to 16):<br>CHARACTER* (Ranked, up to 4):<br>Vein<br>Podiform<br>Discordant<br>CLASSIFICATION* (Ranked, up to 4)                              | Stockwork  | DEPOSIT<br>Breccia<br>Stratabound<br>Disseminated  | Pipe<br>Stratiform<br>Shear  | Unconsolidate  |
| SIGNIFICANT* (Ranked, up to 16):<br>CHARACTER* (Ranked, up to 4):<br>Vein<br>Podiform<br>Discordant<br>CLASSIFICATION* (Ranked, up to 4,<br>Replacement               | Stockwork  | DEPOSIT<br>Breccia<br>Stratabound<br>Disseminated  | Pipe<br>Stratiform<br>Shear  | Unconsolidate  |
| SIGNIFICANT* (Ranked, up to 16):<br>CHARACTER* (Ranked, up to 4):<br>Vein<br>Podiform<br>Discordant<br>CLASSIFICATION* (Ranked, up to 4,<br>Replacement<br>Enigenetic | Stockwork  | DEPOSIT<br>Breccia<br>Stratabound<br>Disseminated<br>Volcanogenic<br>Porphyry  | Pipe<br>Stratiform<br>Shear<br>Sedimentary   | Unconsolidate  |
| SIGNIFICANT* (Ranked, up to 16):  | Stockwork  | DEPOSIT<br>Breccia<br>Stratabound<br>Disseminated<br>Volcanogenic<br>Porphyry<br>Evaporite   | Pipe Stratiform Shear Sedimentary Igneous-contact Exhalative   | Unconsolidate  |
| SIGNIFICANT* (Ranked, up to 16):  | Stockwork<br>Layered<br>Massive<br>):<br>Magmatic<br>Residual<br>Placer<br>Epithermal  | DEPOSIT<br>Breccia<br>Stratabound<br>Disseminated<br>Volcanogenic<br>Porphyry<br>Evaporite<br>Mesothermal  | <ul> <li>Pipe</li> <li>Stratiform</li> <li>Shear</li> <li>Sedimentary</li> <li>Igneous-contact</li> <li>Exhalative</li> <li>Fossil fuel</li> </ul> | Unconsolidate Concordant Unknown Syngenetic Skarn Diatreme Metamorphic                   |
| SIGNIFICANT* (Ranked, up to 16):  | Stockwork Stockw | DEPOSIT<br>Breccia<br>Stratabound<br>Disseminated<br>Volcanogenic<br>Porphyry<br>Evaporite<br>Mesothermal  | <ul> <li>Pipe</li> <li>Stratiform</li> <li>Shear</li> <li>Sedimentary</li> <li>Igneous-contact</li> <li>Exhalative</li> <li>Fossil fuel</li> </ul> | Unconsolidate Concordant Unknown Syngenetic Skarn Diatreme Metamorphic                   |
| SIGNIFICANT* (Ranked, up to 16):  | Stockwork Layered Massive ): Magmatic Residual Placer Epithermal Unknown   | DEPOSIT<br>Breccia<br>Stratabound<br>Disseminated<br>Volcanogenic<br>Porphyry<br>Evaporite<br>Mesothermal  | <ul> <li>Pipe</li> <li>Stratiform</li> <li>Shear</li> <li>Sedimentary</li> <li>Igneous-contact</li> <li>Exhalative</li> <li>Fossil fuel</li> </ul> | Unconsolidate<br>Concordant<br>Unknown<br>Syngenetic<br>Skarn<br>Diatreme<br>Metamorphic |
| SIGNIFICANT* (Ranked, up to 16):  | Stockwork Alexandree Stockwork | DEPOSIT<br>Breccia<br>Stratabound<br>Disseminated<br>Volcanogenic<br>Porphyry<br>Evaporite<br>Mesothermal  | Pipe<br>Stratiform<br>Shear<br>Sedimentary<br>Igneous-contact<br>Exhalative<br>Fossil fuel   | Unconsolidate<br>Concordant<br>Unknown<br>Syngenetic<br>Skarn<br>Diatreme<br>Metamorphic |
| SIGNIFICANT* (Ranked, up to 16):  | Stockwork Layered Massive ): Magmatic Residual Placer Epithermal Unknown   | DEPOSIT<br>Breccia<br>Stratabound<br>Disseminated<br>Volcanogenic<br>Porphyry<br>Evaporite<br>Mesothermal  | Pipe<br>Stratiform<br>Shear<br>Sedimentary<br>Igneous-contact<br>Exhalative<br>Fossil fuel   | Unconsolidate<br>Concordant<br>Unknown<br>Syngenetic<br>Skarn<br>Diatreme<br>Metamorphic |
| SIGNIFICANT* (Ranked, up to 16):  | Stockwork Layered Massive ): Magmatic Residual Placer Epithermal Unknown   | DEPOSIT<br>Breccia<br>Stratabound<br>Disseminated<br>Volcanogenic<br>Porphyry<br>Evaporite<br>Mesothermal  | Pipe Stratiform Shear Sedimentary Igneous-contact Exhalative Fossil fuel Metemorphic   | Unconsolidate<br>Concordant<br>Unknown<br>Syngenetic<br>Skarn<br>Diatreme<br>Metamorphic |
| SIGNIFICANT* (Ranked, up to 16):  | Stockwork Layered Massive ): Magmatic Residual Placer Epithermal Unknown   | DEPOSIT<br>Breccia<br>Stratabound<br>Disseminated<br>Volcanogenic<br>Porphyry<br>Evaporite<br>Mesothermal  | Pipe<br>Stratiform<br>Shear<br>Sedimentary<br>Igneous-contact<br>Exhalative<br>Fossil fuel   | Unconsolidate<br>Concordant<br>Unknown<br>Syngenetic<br>Skarn<br>Diatreme<br>Metamorphic |
| SIGNIFICANT* (Ranked, up to 16):  | Stockwork Layered Massive ): Magmatic Residual Placer Epithermal Unknown   | DEPOSIT<br>Breccia<br>Stratabound<br>Disseminated<br>Volcanogenic<br>Porphyry<br>Evaporite<br>Mesothermal<br>OST ROCK<br>Metaplutonic<br>T Wtrama f.               | Pipe Stratiform Shear Sedimentary Igneous-contact Exhalative Fossil fuel Metamorphic Thruct shice  | Unconsolidate Concordant Unknown Syngenetic Skarn Diatreme Metamorphic                   |
| SIGNIFICANT* (Ranked, up to 16):  | Stockwork Layered Massive ): Magmatic Residual Placer Epithermal Unknown Uolcanic Metavolcanic MODIFIER 2  | DEPOSIT<br>Breccia<br>Stratabound<br>Disseminated<br>Volcanogenic<br>Porphyry<br>Evaporite<br>Mesothermal<br>OST ROCK<br>Metaplutonic<br>T Wtrama fr<br>MODIFIER 3 | Pipe Stratiform Shear Sedimentary Igneous-contact Exhalative Fossil fuel Metamorphic Thruct shice ROCK   | Unconsolidate<br>Concordant<br>Unknown<br>Syngenetic<br>Skarn<br>Diatreme<br>Metamorphic |
| SIGNIFICANT* (Ranked, up to 16):  | Stockwork Layered Massive ): Magmatic Residual Placer Epithermal Unknown Uolcanic Metavolcanic MODIFIER 2  | DEPOSIT<br>Breccia<br>Stratabound<br>Disseminated<br>Volcanogenic<br>Porphyry<br>Evaporite<br>Mesothermal<br>OST ROCK<br>Metaplutonic<br>T Wtrama fr<br>MODIFIER 3 | Pipe Stratiform Shear  Sedimentary Igneous-contact Exhalative Fossil fuel  Metamorphic Thrust shice ROCK   | Unconsolidate<br>Concordant<br>Unknown<br>Syngenetic<br>Skarn<br>Diatreme<br>Metamorphic |

| <u> </u>   | ORMAL HOST   |
|--|--|
| List at least 1 Formal or Informal host)                     | MINFILEC   |
| CPOUD:   | FORMATION:   |
| STRATIGRAPHIC AGE* Pala a DOIG                               | ISOTOPIC AGE:  |
| DATING METHOD  | MATERIAL DATED:  |
|  | EORMAL HOST  |
| IONEOUSMETAMORPHIC/OTHER:                                    | Anomaly (use as a temperary accumence) As As As Anomal D   |
|  | ISOTOPIC AGE:  |
|  | MATERIAL DATED:  |
|  | C Developed Prospect Millerice MEETHOD (Choose One):   |
| GEOL   |  |
|  | C Past Producer D Underground  |
| ECTONIC BELT* (Choose 1):                                    | NORATE   |
| Insular Coast Intermo  | ontane Omineca Foreland  |
| $\cap$   | I had a set of the set |
| FRRANE* (Ranked up to 2):                                    | rellia   |
| TERRANE* (Ranked, up to 2):                                  | rellia home a second and and and and and and and a second a  |
| TERRANE* (Ranked, up to 2):                                  | INVENTORY  |
| IERRANE* (Ranked, up to 2):                                  | INVENTORY  |
| IERRANE* (Ranked, up to 2):                                  | INVENTORY  |
| IERRANE* (Ranked, up to 2):                                  | INVENTORY<br>REPORT ON: Yes No   |
| ZONE (Use generic name for an assay):<br>YEAR:Assay/Analysis | REPORT ON: Yes No  |
| TERRANE* (Ranked, up to 2):                                  | REPORT ON: Yes No  |
| IERRANE* (Ranked, up to 2):                                  | REPORT ON: Yes No<br>el Bulk Drill Core Rock   |
| TERRANE* (Ranked, up to 2):                                  | REPORT ON: Yes No<br>el Bulk Drill Core Rock   |
| TERRANE* (Ranked, up to 2):                                  | INVENTORY REPORT ON: Yes No el Bulk Drill Core Rock in per cent):  |
| TERRANE* (Ranked, up to 2):                                  | INVENTORY       REPORT ON:       Yes       No         el       Bulk       Drill Core       Rock  |
| TERRANE* (Ranked, up to 2):                                  | INVENTORY  REPORT ON: Yes No  el Bulk Drill Core Rock in per cent):  |

The Picture Rock quarry is 4.5 kilometres northwest of Midway between Bauer and Ingram Creeks directly under a major hydroelectric power line (Lat. 49^02.3' Long. 118^47.8'). Access is by a dirt road to the power line from the former railway crossing on Highway 3, west of Midway. The quarry is 500 metres south of the Midway mine from which about 19 tonnes of Ag-Au ore with lead and zinc credits was shipped in the late 1960's and early 1970's. The Rainbow claims covering the area has been explored for large tonnage precious metal potential by Dentonia Resources and Kettle River resources in 1983, Kerr Addison Mines Ltd. in 1984, BP Resources Canada Ltd. from 1987 to 1989 and Minnova Inc. in 1989 and 1990 (Lee, 1990). Through this period to present, ornamental chalcedony has been obtained from the Picture Rock locality for lapidary purposes.

BIBL

(Quote all references for the occurrence B. N. Church (1996): The G Precious Stomes and Au-Okanagan - Boundary Dis of Smployment & Investm

al and local local and local local and local local local local local local and local local local at the Picture Rock Quarry epithermal chalcedonic veins cut altered serpentinite (listwanite) and feldspar porphyry dikes. The quarry is actually a group of small detached and interconnected pits deveolped over a radius of several tens of metres on the crest of a low ridge. The veins are generally norrow (up to 50 cm. wide) and mostly shallow dipping to the east and northeast. Typically the veins are delicately banded in white, grey,

light blue and blue-green layers that are developed parallel to the vein walls or around liswanitic breccia clasts (Photo 3). Except for the largest veins, seen by the floor of the main pit, which has a hanging wall composed mostly of dickite several centimetres thick, walls are little altered by the veining. The veins have epithermal Au, Ag, As, Sb signatures, with anomalous but subeconomic precious metal values (Lee, 1990).

The Picture Rock chaledonic quartz has proven attractive for the manufacture of clock faces and ornaments by local artisans. The bluish-green colour of some of the chalcedony was thought to be due to the presence of nickle, as chrysophrase, derived from the ultramafic and listwanitic host rocks. However, analysis of a sample of the bluish vein material yielded only 15 ppm Ni. Other elements, possibly contributing to the the colour, include 71 ppm Co, 94 ppm Mn, 0.46% Fe, 538 ppm Sr, 96 ppm Cr, 100 ppm Na and 641ppm W.