DESCRIPTIVE MODEL OF SERPENTINE-HOSTED ASBESTOS

By Norman J Page

APPROXIMATE SYNONYM Quebec Type (Shride, 1973).

DESCRIPTION Chrysotile asbestos developed in stockworks in serpentinized ultramafic rocks.

GEOLOGICAL ENVIRONMENT

Rock Types Serpentinites, dunite, harzburgite, pyroxenite.

Textures Highly fractured and veined, serpentinized ultramafic rocks.

Age Range Paleozoic to Tertiary.

Depositional Environment Usually part of an ophiolite sequence. Later deformation and igneous intrusion may be important.

<u>Tectonic Setting(s)</u> Unstable accreted oceanic terranes.

Associated Deposit Types Podiform chromite.

DEPOSIT DESCRIPTION

Mineralogy Chrysotile asbestos ± magnetite ± brucite ± talc ± tremolite-actinolite.

Texture/Structure Stockworks of veins in serpentinized ultramafic rocks.

Alteration None associated with ore, but silica-carbonate, talc may be developed,

Ore Controls Two periods of serpentinization, an earlier pervasive one and a later period near the end of intense deformation accompanied by hydrothermal activity perhaps as a function of intrusion of acidic, igneous rocks highly dependent upon major faulting, and fracture development.

Geochemical signature None.

EXAMPLES:

Thetford-Black Lake, CNQU (Riordon, 1957)

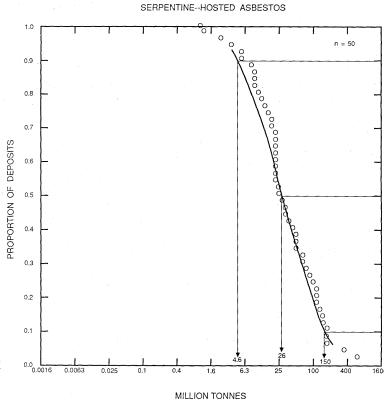
GRADE AND TONNAGE MODEL OF SERPENTINE-HOSTED ASBESTOS

By Greta J. Orris

 $\frac{\text{COMMENTS}}{\text{production was tons of fiber or tons of ore.}} \ \, \text{Some literature did not specify if reported} \\ \text{production was tons of fiber or tons of ore.} \ \, \text{In these cases, production was assumed to be tons of ore which may have led to underestimation of some deposit tonnages.} \ \, \text{See Figs. 27, 28.} \\ \ \, \text{See Figs. 27, 28.} \\ \ \, \text{The second or tons of ore which may have led to underestimation of some deposit tonnages.} \\ \ \, \text{See Figs. 27, 28.} \\ \ \, \text{The second or tons of or tons of or tons of ore which may have led to underestimation of some deposit tonnages.} \\ \ \, \text{The second or tons of tons or tons or$

DEPOSITS

Name	Country	Name	Country
Abitibi Advocate Asbestos Hill Asbestos Island Belvidere Black Lake British Canadian Caley Carey/East Broughton Cana Brava Cassiar Mine Clinton Creek Continental Courvan Mine Cranbourne Daffodil Eagle Gilmont Golden Age Havelock Mine Jefferson Lake Jeffrey Lake Kinlock Kolubara-Azbest Kudu Asbestos Mine	CNQU CNNF CNQU CNQU USVT CNQU CNYT CNQU BRZL CNBC CNYT CNQU CNQU CNQU CNQU CNQU CNQU CNQU CNQU	Lafayette Lake Asbestos Las Brisas Lili McAdam Midlothian Moladezhnoye Munro National Nicolet Asbestos Normandie/Penhale Pontbriand Qala-el-Nahl? Reeves Rex Roberge Lake St. Adrien Mtn. St. Cyr Santiago Papalo Shihmien Steele Brook Thetford Group Windsor Woodsreef Mine Zindani	CNQU CNQU CLBA CNQU CNQU CNON URRS CNON CNQU CNQU CNQU CNQU CNQU CNQU CNQU CNQ



 $\begin{tabular}{ll} \textbf{Figure 27.} & \textbf{Tonnages of serpentine-hosted} \\ \textbf{asbestos deposits.} \\ \end{tabular}$

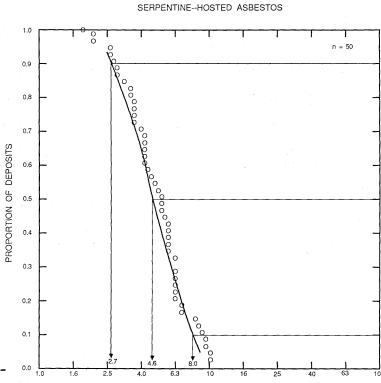


Figure 28. Asbestos grades of serpentine-hosted asbestos deposits.

ASBESTOS GRADE IN PERCENT FIBER