



675561
Kettle River
Phoenix
82E/3

TO
A → Dr. R.I. Thorpe

FROM
DE Dr. K.M. Dawson

SECURITY - CLASSIFICATION - DE SÉCURITÉ
OUR FILE - N / RÉFÉRENCE
YOUR FILE - N / RÉFÉRENCE
DATE 12 September, 1983

SUBJECT
OBJET Specimen for Pb isotope analysis, submitted by Dr. J.T. Fyles, Aug. 29, 1983.

Number: GSC no. DY 2854
J.T. Fyles no. F83-58

Claim Name(s): RB group of Kettle River Resources, formerly Crown Grant CALEDONIA, L973(?).

Location: NTS 82E/2; 49°04.15'N, 118°31.0'W.
Between Greenwood and Grand Forks, on northeastern ridge of Hardy Mtn., at elevation 4000'.

Description: Specimens collected from dumps adjacent to two old pits. Host for mineralization is brecciated greenstone close to upper surface of a thick massive greenstone unit that is fragmental, in part. Overlain by sequence less than 500' thick including thinly bedded green tuffaceous siltstone, sandstone, limestone and chert breccia. Chert breccia is correlated with the Sharpstone conglomerate of Phoenix district. Sequence appears to grade laterally into greenstone. Mineralization involved deposition of sphalerite, galena, chalcopryrite, pyrite and iron carbonate as lenses less than 1' thick and 2' long, irregular in attitude and discontinuous along strike. The mineralization is exposed in two trenches as a zone 20-30' long and parallel to the trend of the host greenstone. Smaller occurrences of pyrite, pyrrhotite and chalcopryrite within the sedimentary complex are massive pods or disseminations along formational contacts.

Comment: Host greenstone may essentially be same age as Upper Triassic Sharpstone conglomerate, or may be older. A possibly correlative unit would be the Permo-Carboniferous chert-basalt unit unconformably underlying the Brooklyn Fm. Mineralization presumably has been correlated to that at Sylvester K, which is interpreted to be a volcanogenic massive sulphide. Compare Pb isotopic composition to that of skarns at Cyclops (DY 2850) and 3000'E of BC Mine (DY 2834).

Kenneth M. Dawson

KMD/bv

Encl.

cc: J.T. Fyles
G.O.M. Stewart

Apr 10/84 results:
206/204 207/204 208/204
18.815 15.638 38.591