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42A01NE0256 63.5636 GRENFELL

REPORT AND ANALYSIS OF KENOGAMI River CLAIMS: [illegible]

KENOGAMI RIVER CLAIMS: This group comprises eight contiguous claims stretching about 1.5 miles north-south along the ONR tracks and the Kenogami River. The claims numbers from north to south are as follows: 85908, 85909, 857396, 983066, 1112062, 1136836, 1112061 and 1112060. Access to these claims is by boat via the Kenogami River and Perron Creek or by foot from roads to Kenogami station.

Previous Work: The claims lie in tholeiitic volcanics of the Kinojevis group. Much of the claim area has outcrops of pillow lavas striking NW, with tops to the NE. More importantly the claims lie just north of the discontinuity between the underlying Kinojevis and the Temiskaming sediments, and within one-quarter mile of the Larder Lake fault and, in line with or slightly to the north of the Kirkland Lake main break extension. The Four Nations Mine was located just west of these claims and some minor amounts of gold have been found in this and a few other locations in the area. The mineralized shear zone of the Four Nations mine strikes N70E into our claims. Our claims are important in that they cover a considerable section north of the Larder Lake fault and should be carefully explored for a possible shear or fault zone that might be associated with the Kirkland Lake main break. To our knowledge no significant recorded geophysical work has previously been carried out on these claims. The reports of two previous holes drilled by us in tholeiitic basalt pillows, are available as assessment files for these claims.

Current Drill Hole Location and Result: The exploration work done in 1989 on these claims consisted of one drill hole of 143 ft collared in claim number L857396 and drilled at a dip of 45 degrees with an azimuth of 180 degrees (due south). The drill core log is appended to this report. The hole is collared in well exposed pillows of the Kinojevis group. The pillows strike NW and have tops to the NE. The location of the hole on the claims was based on stories from old-timers that previous drilling in this area had intersected interesting showings. There was a barren quartz pod to the NW but previous drilling in this direction had failed to intersect a significant quartz vein or shear zone.

The current hole is in tholeiitic pillows or flows for its full 143 ft. Pillow selvages were observed at generally increasing spacing from 7 ft to 97.5 ft with some minor amounts of pyrite at these edges. Thin quartz-carbonate vienlets were seen at 0 to 7 ft and from 51 to 67.5 ft while thicker (2 in), non-mineralized veins were seen at 28 ft and 106 ft. From 97.5 to 101 ft the drill passed through an amygulated section which may represent a flow top since the basalt below this to the end of the hole was a more uniform dark grey and may represent a more iron rich tholeiitic basalt than that in the pillows. Apart from the small amount of pyrite seen at pillow edges, no mineralization was observed in this hole. There was also no

evidence of a significant shear zone. The only anomolous region was a lighter yellow green section from 42.5 to 43.5 ft which was non-mineralized and was probably a more olivine-rich section of basalt.

Recommendations: This block of claims is strategically very well placed at the west end of the zone defining the Kirkland Lake main break. Since faults to the north of the main break are mineralized in the Kirkland Lake camp it is possible that these, or comparable faults extend into our claims. We would recommend a very intensive geophysical examination of the property with a view to defining any east-west trending anomolies that might cross the claims. A magnetometer survey should be done to pick up any linear magnetic lows in the generally higher magnetic background of the volcanics. A concurrent VLF survey should be used to try to correlate magnetic lows and possible conductive zones which may indicate shears. Following the geophysics a careful geological survey should be carried out to determine which anomolies might best be explored by further drilling.

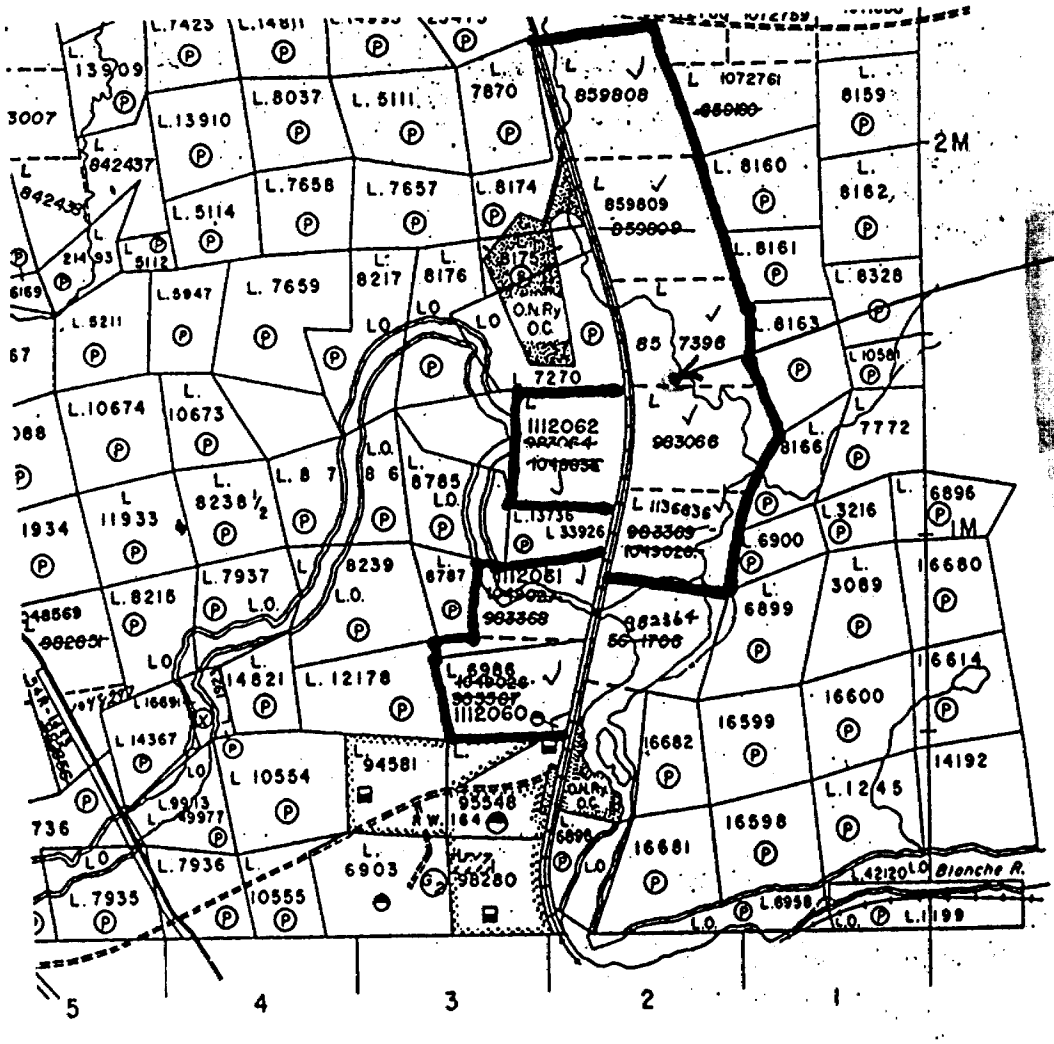


Figure 2: Detail of Kenogami River Claims

LOCATION OF DRILL HOLE INDICATED

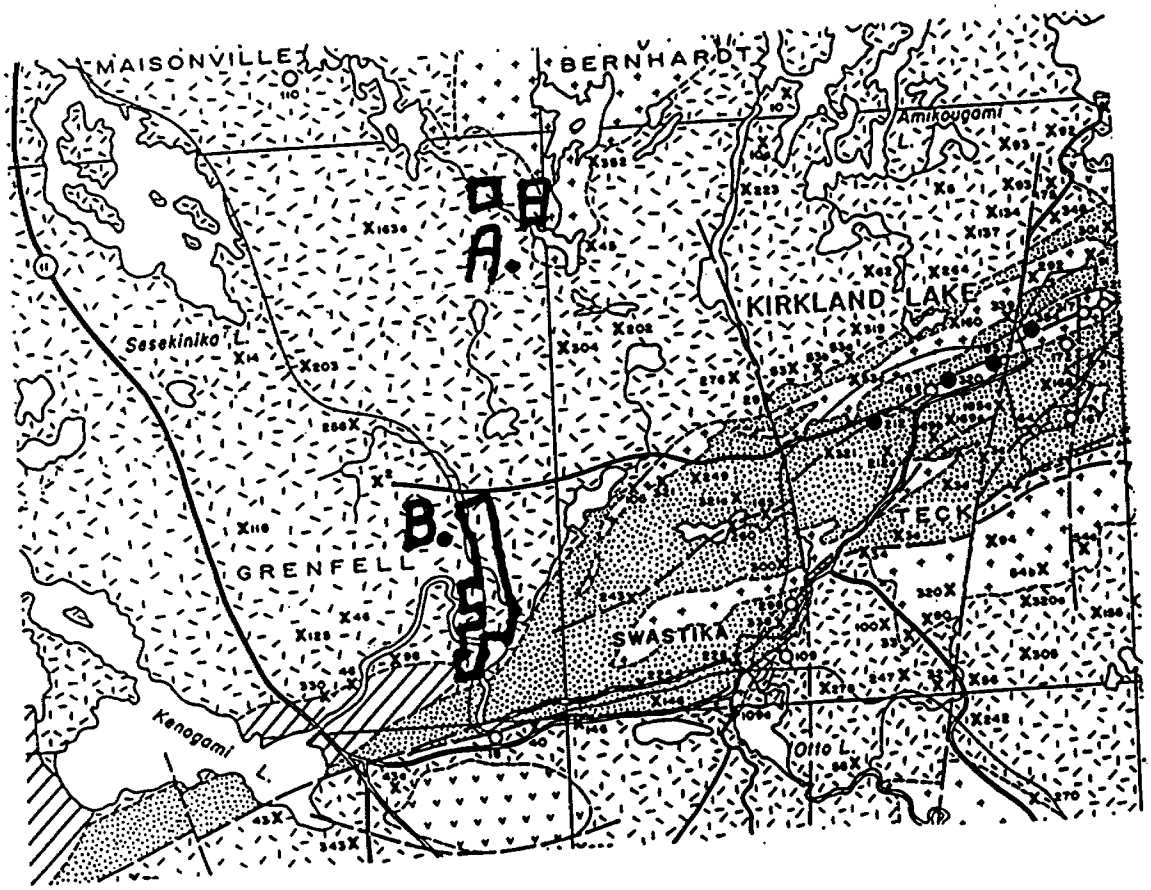


Figure 1: Locations of our claims in Grenfell Twp. Claims labelled A. (3 claims) are the Kapakita Creek claims while those labelled B. (8 claims) are the Kenogami River claims. Note the location of the Kenogami River claims with reference to the Kirkland Lake main break extension. The Four Nations Mine is number 98 just west of the Kenogami River claims.

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THIS SUBMITTAL CONSISTED OF VARIOUS REPORTS, SOME OF WHICH HAVE BEEN CULLED FROM THIS FILE. THE CULLED MATERIAL HAD BEEN PREVIOUSLY SUBMITTED UNDER THE FOLLOWING RECORD SERIES (THE DOCUMENTS CAN BE VIEWED IN THESE SERIES):

© Diamond drill log Hole No. 1; → See Grenfell Twp. D.D.R. #30
B. Vallieres; L. Prevec; Sept/89 R.O.W. W8908-467