

GEOLOGY OF THE BEAVER CREEK-HORSEFLY RIVER MAP AREA

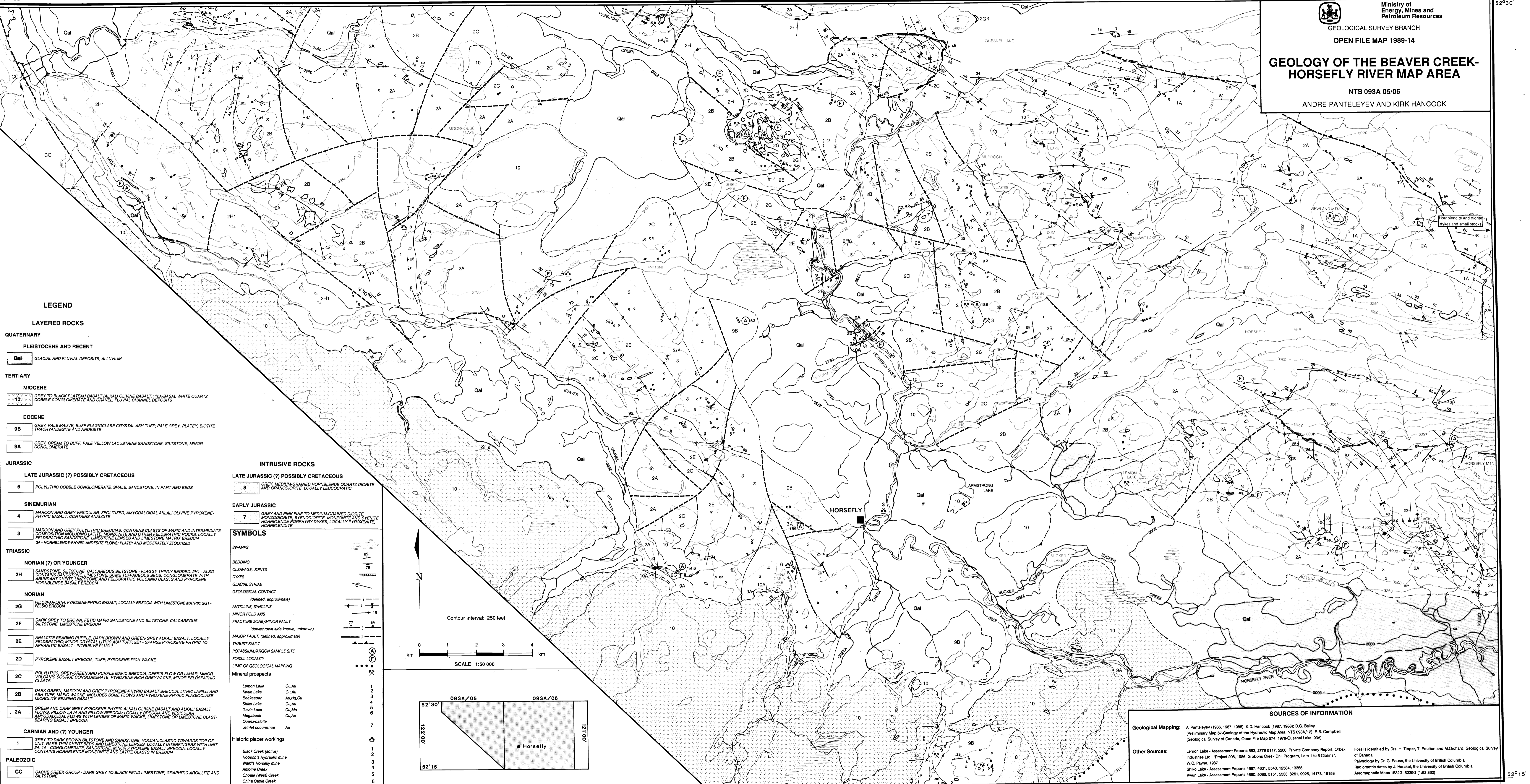
NTS 093A 05/06
ANDRE PANTELEYEV AND KIRK HANCOCK

TO NORTH SEE PRELIMINARY MAP 67, 1:50 000

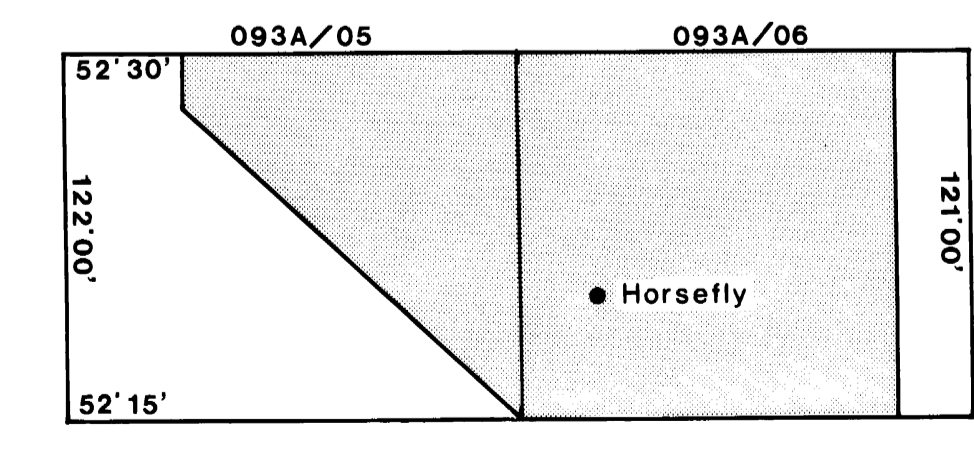
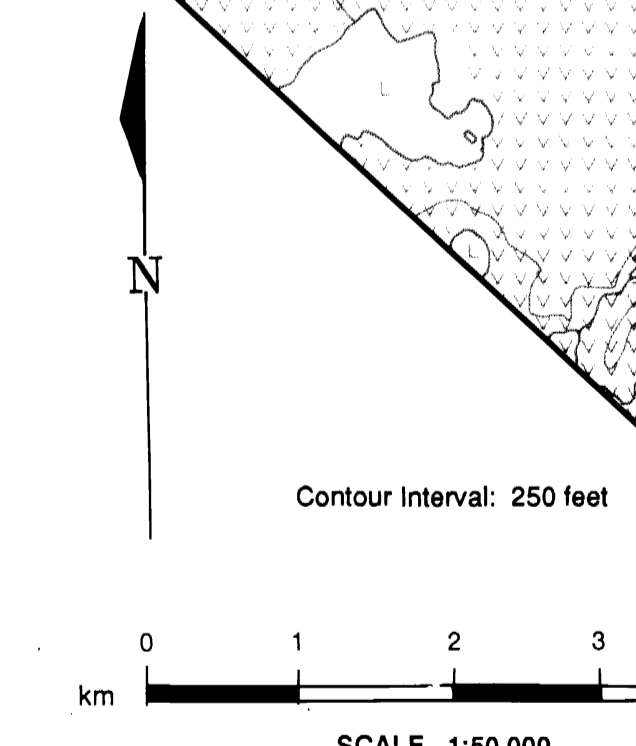
121° 30'

121° 52'

52° 30'



- LEGEND**
- LAYERED ROCKS**
- QUATERNARY**
- PLEISTOCENE AND RECENT**
- Qal** GLACIAL AND FLUVIAL DEPOSITS: ALLUVIUM
- TERTIARY**
- MIOCENE**
- 10** GREY TO BLACK PLATEAU BASALT (ALKALI OLIVINE BASALT); 10A-BASAL WHITE QUARTZ COBBLE CONGLOMERATE AND GRAVEL, FLUVIAL CHANNEL DEPOSITS
- Eocene**
- 9B** GREY, PALE MAUVE, BUFF PLAGIOCLASE CRYSTAL ASH TUFF; PALE GREY, PLATEY, BIOTITE TRACHYANDESITE AND ANDESITE
- 9A** GREY, CREAM TO BUFF, PALE YELLOW LACUSTRINE SANDSTONE, SILTSTONE, MINOR CONGLOMERATE
- JURASSIC**
- LATE JURASSIC (?) POSSIBLY CRETACEOUS**
- 6** POLYLYTHIC COBBLE CONGLOMERATE, SHALE, SANDSTONE, IN PART RED BEDS
- Sinemurian**
- 4** MAROON AND GREY VESICULAR, ZEOLITIZED, AMYGDALOIDAL AKLALI OLIVINE PYROXENE-PHYRIC BASALT, CONTAINS ANALCITE
- 3** MAROON AND GREY POLYLYTHIC BRECCIAS; CONTAINS CLASTS OF MAFIC AND INTERMEDIATE COMPOSITION INCLUDING LATITE, MONZONITE AND OTHER FELSPATHIC ROCKS; LOCALLY FELDSPATHIC SANDSTONE, LIMESTONE LENSES AND LIMESTONE MATRIX BRECCIA
3A - HORNBLENDE-PHYRIC ANDESITE FLOWS; PLATEY AND MODERATELY ZEOLITIZED
- TRIASSIC**
- NORIAN (?) OR YOUNGER**
- 2H** SANDSTONE, SILTSTONE, CALCAREOUS SILTSTONE - FLAGGY THINLY BEDDED, 2H1 - ALSO CONTAINS SANDSTONE, LIMESTONE, SOME TUFFACEOUS BEDS, CONGLOMERATE WITH ABUNDANT CHERT, LIMESTONE AND FELDSPATHIC VOLCANIC CLASTS AND PYROXENE HORNBLENDE BASALT BRECCIA
- Norian**
- 2G** DARK GRAY TO BROWN, FETID MAFIC SANDSTONE AND SILTSTONE, CALCAREOUS SILTSTONE, LIMESTONE BRECCIA
- 2F** DARK GREY TO BROWN, FETID MAFIC SANDSTONE AND SILTSTONE, CALCAREOUS SILTSTONE, LIMESTONE BRECCIA
- 2E** ANALCITE BEARING PURPLE, DARK BROWN AND GREEN GREY AKLALI BASALT; LOCALLY FELDSPATHIC, MINOR CRYSTAL LITHIC ASH TUFF; 2E1 - SPARSE PYROXENE-PHYRIC TO APHANTITE BEARING BASALT
- 2D** PYROXENE BASALT BRECCIA, TUFF, PYROXENE-RICH WACKE
- 2C** POLYLYTHIC, GREY-GREEN AND PURPLE MAFIC BRECCIA, DEBRIS FLOW OR LAHAR, MINOR VOLCANIC SOURCE CONGLOMERATE, PYROXENE-RICH GREYWACKE, MINOR FELDSPATHIC CLASTS
- 2B** DARK GREEN, MAROON AND GREY PYROXENE-PHYRIC BASALT BRECCIA, LITHIC LAPILLI AND ASH TUFF; MAFIC WACKE, INCLUDES SOME FLOWS AND PYROXENE-PHYRIC PLAGIOCLASE MICROCLITE BEARING BASALT
- 2A** GREEN AND DARK GREY PYROXENE-PHYRIC AKLALI OLIVINE BASALT AND AKLALI BASALT FLOWS, PILLOW LAVA AND PILLOW BRECCIA; LOCALLY BRECCIA AND VESICULAR; AMYGDALOID FLOWS WITH LENSES OF MAFIC WACKE, LIMESTONE OR LIMESTONE CLAST-BEARING BASALT BRECCIA
- CARNIAN AND (?) YOUNGER**
- 1** GREY TO DARK BROWN SILTSTONE AND SANDSTONE, VOLCANICLASTIC TOWARDS TOP OF UNIT, RARE THIN CHERT BEDS AND LIMESTONE LENSES; LOCALLY INTERFINGERS WITH UNIT 2A. 1A - CONGLOMERATE SANDSTONE, MINOR PYROXENE BASALT BRECCIA, LOCALLY CONTAINS HORNBLENDE MONZONITE AND LATITE CLASTS IN BRECCIA
- PALEOZOIC**
- CC** CACHE CREEK GROUP - DARK GREY TO BLACK FETID LIMESTONE, GRAPHIC ARGILLITE AND SILTSTONE
- INTRUSIVE ROCKS**
- LATE JURASSIC (?) POSSIBLY CRETACEOUS**
- 8** GREY, MEDIUM-GRAINED HORNBLENDE QUARTZ DIORITE AND GRANODIORITE, LOCALLY LEUCOCRATIC
- EARLY JURASSIC**
- 7** GREY AND PINK FINE TO MEDIUM-GRAINED DIORITE, MONZONITIC SYENOCALCITE, MONZONITE AND SYENITE, HORNBLENDE PORPHYRY DYKES; LOCALLY PYROXENITE, HORNBLENDE
- SYMBOLS**
- SWAMPS**
- BEDDING**
- CLEAVAGE, JOINTS**
- DYKES**
- GLACIAL STRIAE**
- GEOLOGICAL CONTACT**
(defined, approximate)
- ANTICLINE, SYNCLINE**
- MINOR FOLD AXIS**
- FRACTURE ZONE/MINOR FAULT**
- MAJOR FAULT: (defined, approximate)**
- THRUST FAULT**
- POTASSIUM/ARGON SAMPLE SITE**
- FOSSIL LOCALITY**
- LIMIT OF GEOLOGICAL MAPPING**
- Mineral prospects**
- | | | |
|---------------------|----------|---|
| Lemmon Lake | Cu,Au | 1 |
| Kwun Lake | Cu,Au | 2 |
| Beeskeeper | Au,Hg,Cu | 3 |
| Shiko Lake | Cu,Au | 4 |
| Gavin Lake | Cu,Ag | 5 |
| Megabuck | Cu,Au | 6 |
| Quartz-catche | | |
| velinlet occurrence | Au | 7 |
- Historic placer workings**
- | | |
|-------------------------|---|
| Black Creek (active) | 1 |
| Hobson's Hydraulic mine | 2 |
| Ward's Horsefly mine | 3 |
| Astoria Creek | 4 |
| Choate (West) Creek | 5 |
| China Cabin Creek | 6 |



SOURCES OF INFORMATION

Geological Mapping: A. Panteleyev (1986, 1987, 1988); K.D. Hancock (1967, 1968); D.G. Bailey (Preliminary Map 67-Geology of the Hydraulic Map Area, NTS 093A/12); R.B. Campbell (Geological Survey of Canada, Open File Map 574, 1979-Queen's Lake, 53A)

Other Sources: Lemmon Lake - Assessment Reports 863, 2779 5117, 5260; Private Company Report, Orbex Industries Ltd., "Project 206, 1986, Gibbons Creek Drill Program, Lem 1 to 5 Claims", W.C. Payne, 1987
Shiko Lake - Assessment Reports 4557, 4601, 5540, 12584, 13355
Kwun Lake - Assessment Reports 4860, 5086, 5151, 5533, 8261, 9925, 14178, 15153

Fossils identified by Drs. H. Tipper, T. Poulton and M. Orchard, Geological Survey of Canada
Petrology by Dr. G. Roux, the University of British Columbia
Radiometric dates by J. Harakai, the University of British Columbia
Aeromagnetic Maps 1532G, 5239G (1:63 360)

121° 52'

121° 30'

52° 15'