**Province of British Columbia**
Ministry of Energy, Mines
and Petroleum Resources

MINERAL RESOURCES DIVISION
Geological Survey Branch

# OPEN FILE

**OPEN FILE**
**1992-5**
**Geology, Geochem & Mineral Occurrences**
**More Creek Area NW BC**
by J.M. Logan, J.R. Drobe & D.C. Elsby
NTS 104G/2 Scale 1:50 000

Province of British Columbia
Ministry of Energy, Mines and Petroleum Resources

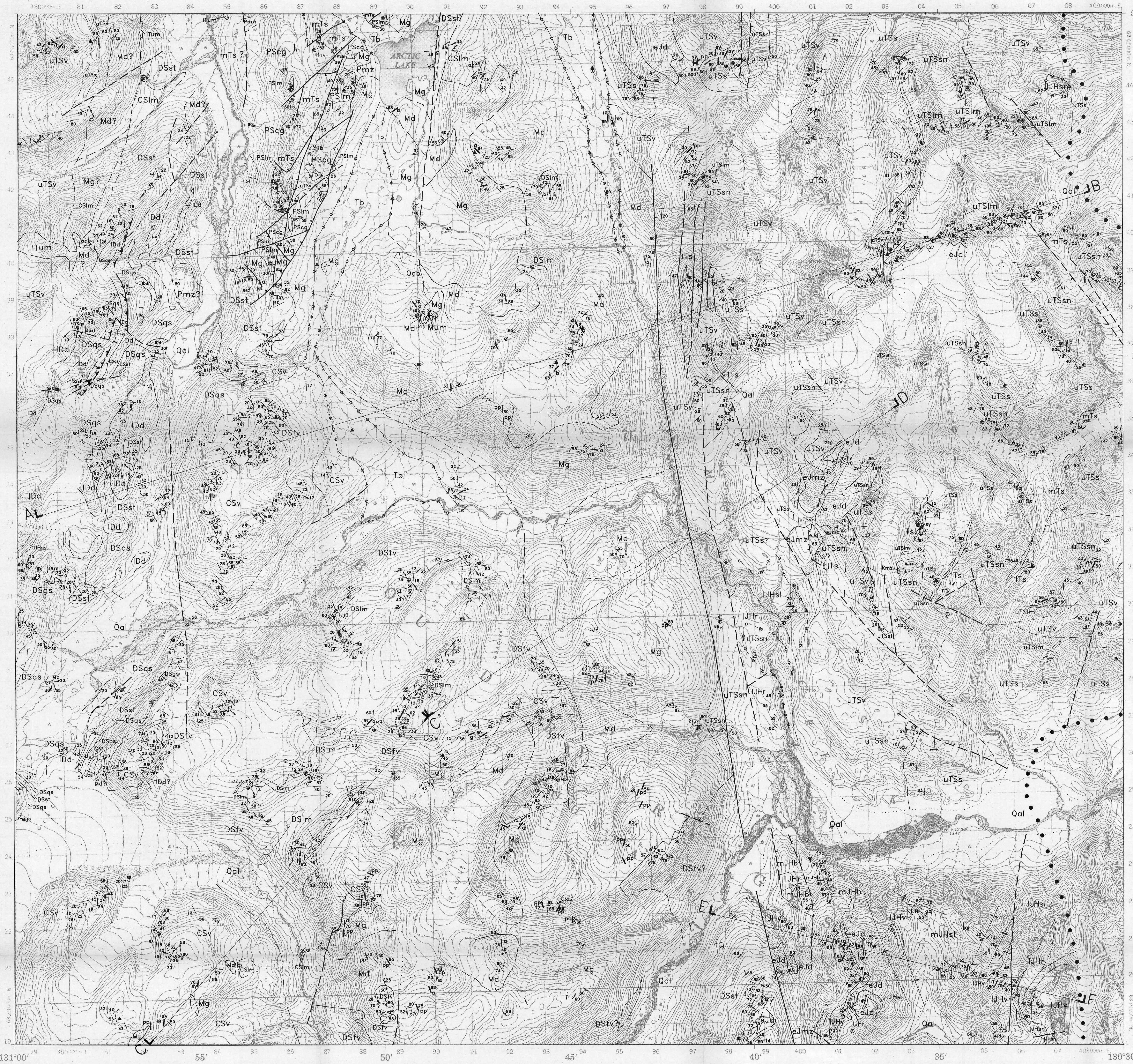
OPEN FILE 1992-5 (SHEET 1 OF 2)

# GEOLOGY, GEOCHEMISTRY AND MINERAL OCCURRENCES OF THE MORE CREEK AREA, NORTHWESTERN B.C.

NTS 104G/2

JAMES M. LOGAN, JOHN R. DROBE, DARREN C. ELSBY

SCALE 1:50 000




## LEGEND

### LAYERED ROCKS

**QUATERNARY**

| | |
|---|---|
| Qal | *glacial till and alluvium* |
| Qob | *olivine basalt scoria, flow and flow breccia* |

**TERTIARY OR YOUNGER**

| | |
|---|---|
| Tb | *basalt flow, breccia and lapilli tuff* |

**LOWER AND MIDDLE JURASSIC**

**HAZELTON GROUP**

| | |
|---|---|
| mJHsl | *siltstone-sandstone, crystal-lapilli tuff and rhyolite-lapilli tuff, limy sandstone* |
| mJHb | *basalt flow, breccia and tuff, grey scoriaceous, aphyric to sparsely plagioclase-phyric, horizons of interbedded thin black shale and white tuff* |
| lJHv | *purple and green basaltic andesite lapilli tuff and flows, locally pillowed, plagioclase and augite-phyric flows* |
| lJHr | *rhyolite, ash-flow lapilli tuff and flow-layered lava, silicified conglomerate and tuff* |
| lJHsn | *tan-weathering sandstone, plagioclase crystal tuff, peperite flows, siltstone, carbonaceous plant fragments common* |
| lJHsl | *black graphitic siltstone, stratiform diagenetic pyrite to several per cent, thin interbeds of tan and grey sandstone* |

**UPPER TRIASSIC**

**STUHINI GROUP**

| | |
|---|---|
| uTSv | *medium to thin-bedded, pale green-grey tuffs, tuffaceous siltstone, orange-weathering augite-phyric and aphyric basalt flows, tuff and sills* |
| uTSs | *thick, poorly bedded green-grey tuffaceous, augite-bearing sandstone/siltstone, common granule and pebble conglomerate, thin-bedded black limestone* |
| uTSlm | *limestone; medium bedded, grey, with sparse crinoid fragments, minor fetid argillaceous limestone and cherty thin-bedded siltstone* |
| uTSsn | *well-bedded feldspathic sandstone, greywacke and siltstone; limestone-bearing conglomerates and very thin-bedded siltstone* |
| uTSsl | *massive, black to grey-brown, calcareous siltstone, thin-bedded and laminated with fine-grained sandstone, typically undulose cross-stratified* |

**MIDDLE TRIASSIC ?**

| | |
|---|---|
| mTs | *limy, fetid sandstone, siltstone, concretionary sandstone and shale; thin bedded, carbonaceous and pyritic* |

**STIKINE ASSEMBLAGE**

**PERMIAN**

| | |
|---|---|
| PSlm | *bioclastic packstone, lesser buff silty dolomitic units; medium-bedded to massive, grey* |
| PScg | *cobble to boulder, maroon, grey and orange conglomerate and sandstone; clasts are granite, quartz-feldspar porphyry, plagioclase phyric andesite and lapilli-crystal tuff, minor diorite and basalt clasts, tuffaceous near upper contact with limestone* |

**CARBONIFEROUS OR OLDER**

| | |
|---|---|
| CSlm | *limestone, crinoidal limestone, massive to thickly bedded, medium grey* |
| CSv | *basalt and andesite pillowed flow and breccia, hyaloclastite, lapilli and ash tuff; massive to weakly foliated, dark green to grey* |

**DEVONIAN AND OLDER**

| | |
|---|---|
| DSfv | *intermediate to felsic plagioclase phyric tuffs, flow breccia, minor flows; light green to grey, minor limestone* |
| DSlm | *deformed coralline limestone; massive to thinly bedded, grey to buff* |
| DSst | *bright green chlorite and red-purple schistose tuff and minor flows, interbedded tuffaceous and siliceous dust-tuff and common thin-bedded recrystallized limestone* |
| DSqs | *quartz sericite schist; white to pale green-grey with crenulated foliation* |
| DSgs | *black graphitic schist* |

### INTRUSIVE ROCKS

| | |
|---|---|
| Dikes | *(a) aphyric diorite; (pp) mafic plagioclase ± pyroxene porphyry; (l) lamprophyre; (f) felsic; (sy) porphyritic syenite; (b) basalt* |

**CRETACEOUS(?) AND YOUNGER**

| | |
|---|---|
| lKmz | *monzonite; biotite phyric* |

**EARLY JURASSIC AND YOUNGER**

| | |
|---|---|
| eJd | *medium-grained equigranular diorite and gabbro, plagioclase and pyroxene groundmass* |
| eJmz | *fine-grained and potassium feldspar porphyritic monzonite, granodiorite* |

**LATE TRIASSIC OR YOUNGER**

| | |
|---|---|
| lTs | *syenite; orthoclase porphyry with conspicuous large tabular phenocrysts* |
| lTum | *serpentinized peridotite* |

**PERMIAN OR YOUNGER**

| | |
|---|---|
| Pmz | *monzonite; dark grey-brown, pink weathering; plagioclase-hornblende porphyry* |

**MISSISSIPPIAN OR YOUNGER**

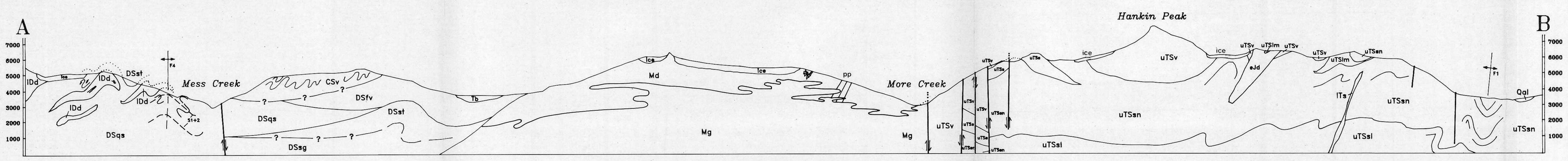
| | |
|---|---|
| Mg | *coarse to medium-grained, biotite and hornblende granodiorite, tonalite, and granite* |
| Md | *medium-grained hornblende diorite, quartz diorite; compositional layering (amphibolite-tonalite) common; locally foliated and gneissic, especially near margins* |
| Mum | *coarse-grained gabbro, amphibolite, and clinopyroxenite* |

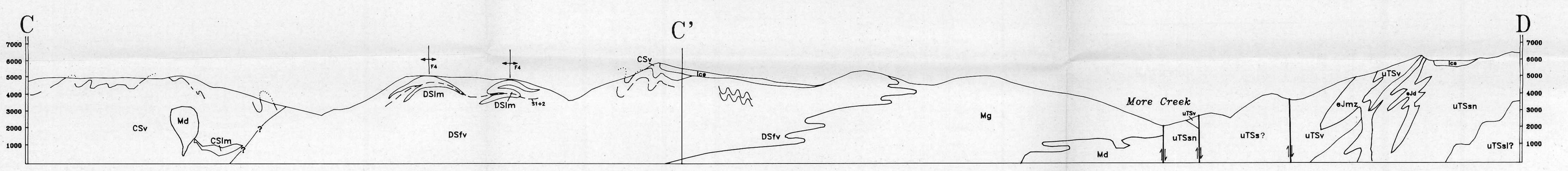
**DEVONIAN ?**

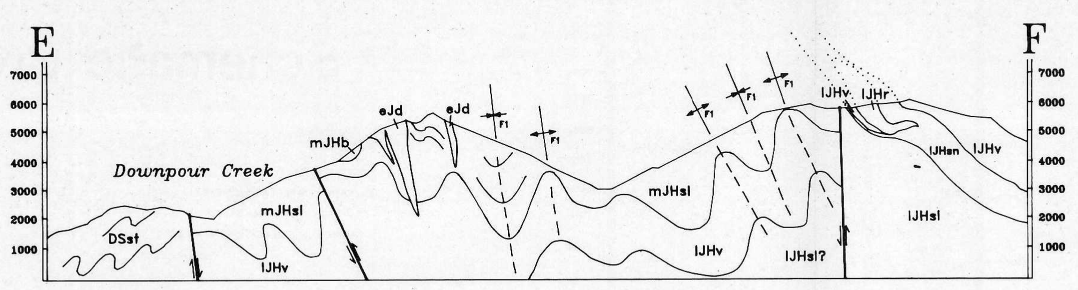
| | |
|---|---|
| lDd | *weakly foliated to schistose diorite; dark green and equigranular, grades into chlorite schist with crenulated foliation* |

### SYMBOLS

Limit of mapping
Depositional contact (known, approx., inferred)
Unconformity (known, approx., inferred)
Intrusive contact (known, approx., inferred)
Normal and strike slip faults (known, approx., inferred)
Thrust fault (known, approx., inferred)
Fold axis trace (anticline, syncline)
$S_0$
$S_1$
$S_2$
$S_3$
Flow layering
Dike
Brittle cleavage
Fractures and joints
Vein
Axial plane
$F_1$, $L_1$
$F_2$, $L_2$
$F_3$, $L_3$
$F_4$
Minor fault
Slickensides
Fossil locations (conodonts, macrofossils)
Whole rock geochemistry sample
Geochronology sample




## Schematic Cross Sections

CONTOUR INTERVAL .................. 100 FEET
ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL
NORTH AMERICAN DATUM 1927
TRANSVERSE MERCATOR PROJECTION

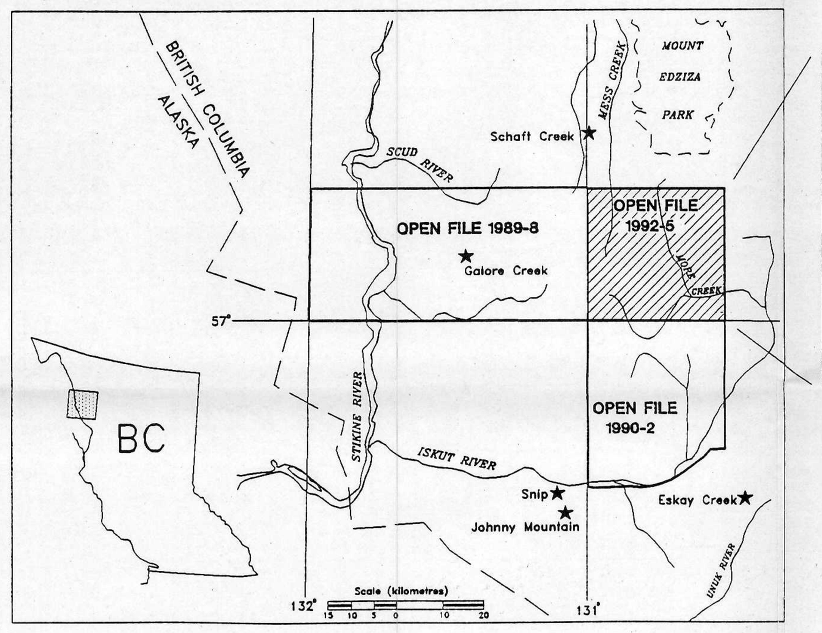
CASSIAR LAND DISTRICT
BRITISH COLUMBIA
Scale 1:50,000 Échelle

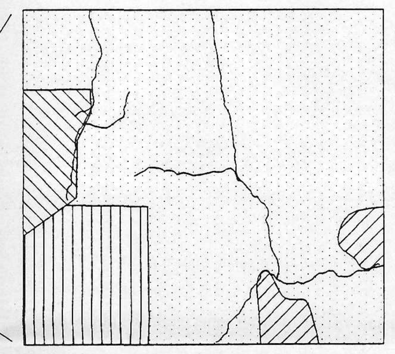
ONE THOUSAND METRE
UNIVERSAL TRANSVERSE MERCATOR GRID
ZONE 9
QUADRILLAGE DE MILLE MÈTRES
UNIVERSEL TRANSVERSE DE MERCATOR

The 1974 MAGNETIC BEARING is 30°17' (538 mils) EAST of GRID NORTH.

ANNUAL CHANGE DECREASING 3.4'

GRID NORTH is 1°28' (26 mils) WEST of TRUE NORTH for centre of map.



### Compilation Sources

Souther (1972)
Read et al (1989)
Barnes (1989)
Holbek (1988)

### REFERENCES


Barnes, D.R. (1989): Geological-Geochemical Report, Foremore Group, Liard Mining District; *B.C. Ministry of Energy, Mines and Petroleum Resources*, Assessment Report 19,379.

Holbek, P.M. (1988): Geology and Mineralization of the Stikine Assemblage, Mess Creek Area, Northwestern British Columbia; unpublished M.Sc. thesis, *The University of British Columbia*, 174 pages.

Logan, J.M., Koyanagi, V.M. and Rhys, D. (1989b): Geology and Mineral Occurrences of the Galore Creek Area, (104G/3,4); *B.C. Ministry of Energy, Mines and Petroleum Resources,* Open File 1989-8

Logan, J.M., Koyanagi, V.M. and Drobe, J.R. (1990b): Geology, Geochemistry and Mineral Occurrences of the Forrest Kerr - Iskut River Area, Northwestern British Columbia (104B/10,15); *B.C. Ministry of Energy, Mines and Petroleum Resources,* Open File 1990-2.

Read, P.B., Brown, R.L., Psutka, J.F., Moore, J.M., Journeay, M., Lane, L.S. and Orchard, M.J. (1989): Geology of Parts of Snippaker Creek (104B/10), Forrest Kerr Creek (104B/15), Bob Quinn Lake (104B/16), Iskut River (104G/1), and More Creek (104G/2); *Geological Survey of Canada,* Open File 2094.

Souther, J.G. (1972): Telegraph Creek Map Area, British Columbia; *Geological Survey of Canada*, Paper 71-44, 38 pages.

OPEN FILE 1992-5 (SHEET 2 OF 2)

# GEOLOGY, GEOCHEMISTRY AND MINERAL OCCURRENCES OF THE MORE CREEK AREA, NORTHWESTERN B.C.

NTS 104G/2

JAMES M. LOGAN, JOHN R. DROBE, DARREN C. ELSBY

Province of British Columbia
Ministry of Energy, Mines and Petroleum Resources

SCALE 1:100 000

c.2

## TABLE 1992-5-1: ASSAY AND GEOCHEMICAL RESULTS FOR THE MORE CREEK MAP AREA, 104G / 2.

| MAP NO | EASTING | NORTHING | AU | AG | CU | PB | ZN | NI | MO | AS | SB | FE | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ANALYTICAL METHOD | | | FA | AAS | AAS | AAS | AAS | AAS | AAS | AAS-H | AAS-H | AAS | |
| DETECTION LIMITS | | | 5 ppb | 0.5 ppm | 2 ppm | 4 ppm | 2 ppm | 2 ppm | 3 ppm | 1 ppm | 0.5 ppm | 5 ppm | |
| G 1 | 379081 | 6343332 | <5 | 8 | 0.74% | 4 | 78 | 30 | <3 | 5 | 2 | 4.04 | ml stained fracture surfaces |
| G 2 | 379242 | 6343331 | <5 | 7 | 1.85% | 34 | 84 | 15 | <3 | 22 | 9 | 4.73 | ml + carb alteration |
| G 3 | 386666 | 6341155 | 10 | 14 | 1.65% | 52 | 0.25% | 39 | <3 | 0.33% | 0.53% | 3.52 | diss + fract tt, mal + az, grab from trench |
| G 4 | 407494 | 6340723 | 770 | 3.2 | 820 | 16 | 135 | 5 | <3 | 124 | 2 | 14.7 | grab diss + fract controlled po + py |
| G 5 | 407056 | 6340663 | <5 | 0.6 | 37 | 8 | 42 | 52 | 26 | 59 | 2 | 4.38 | 75 cm wide chip qtz-carb alteration |
| G 6 | 386397 | 6339071 | 462 | 5 | 45 | 162 | 28 | 2 | 32 | 30 | 4 | 3.32 | grab ser + py + sil altered grnt |
| G 7 | 382837 | 6338961 | 32996 | 55 | 245 | 2.57% | 1.80% | <2 | <3 | 30.00% | 310 | 23.6 | massive py + aspy + gl + qtz from trench, BJ claims |
| G 8 | 388873 | 6337831 | <5 | 0.6 | 18 | 36 | 34 | 4 | <3 | 5 | 0.5 | 6.53 | hem altered volcanics w/ diss. py |
| G 9 | 398059 | 6337210 | <5 | 0.6 | 41 | 30 | 108 | 6 | 12 | 18 | <0.5 | 3.73 | qtz-carb altered fault zone |
| G 10 | 381840 | 6335905 | 795 | <0.5 | 7 | 7 | 13 | 5 | <3 | 17 | 0.5 | 1.60 | qtz stwk, minor diss. py, veins 20-40cm wide |
| G 10 dup | 381840 | 6335905 | 865 | 0.6 | 6 | 6 | 13 | 5 | <3 | 13 | 0.5 | 1.53 | qtz stwk, minor diss. py, veins 20-40cm wide |
| G 11 | 386142 | 6335704 | <5 | 8 | 420 | 426 | 158 | 3 | 49 | 112 | 5 | 0.60 | qtz vein stwk, trace py + ml |
| G 12 | 395205 | 6335557 | <5 | 0.6 | 4 | 26 | 185 | 16 | <3 | 51 | 3 | 6.62 | clay altered granite |
| G 13 | 395205 | 6335557 | <5 | 0.6 | 22 | 18 | 119 | 13 | <3 | 23 | 5 | 5.66 | clay altered granite |
| G 14 | 395019 | 6335494 | <5 | 0.6 | 70 | 12 | 183 | 110 | 7 | 73 | 11 | 6.31 | clay altered granite |
| G 15 | 380722 | 6335393 | 100 | <0.5 | 8 | 4 | 12 | 4 | <3 | 0.11% | 4 | 1.26 | qtz veins w/ 1-2mm wide aspy selvages |
| G 16 | 399317 | 6334746 | <5 | 1 | 16 | 22 | 69 | 11 | 8 | 31 | 1 | 5.93 | carb veining, diss. py, + hem-alteration |
| G 17 | 385732 | 6334650 | <5 | 1.4 | 33 | 30 | 132 | 3 | 4 | 13 | 1 | 2.22 | qtz-carb alteration zone, diss. py |
| G 18 | 408995 | 6334641 | <5 | 0.5 | 137 | 10 | 43 | 11 | <3 | 9 | 1 | 4.69 | qtz-carb veining, common diss. py |
| G 19 | 381444 | 6334293 | 1660 | 1.2 | 84 | 20 | 32 | 9 | <3 | 155 | 2 | 5.14 | qtz-carb-py veinlets in argillic alt. brcc zone |
| G 20 | 403628 | 6332495 | 40 | 1 | 65 | 36 | 38 | 13 | 30 | 81 | 5 | 5.21 | grab pyritic limy tuff |
| G 21 | 401444 | 6332428 | 1120 | 4 | 0.95% | 22 | 85 | 14 | 4 | 10 | 2 | 4.69 | fracture-controlled diss.+ blebby py+cpy+ml |
| G 22 | 379155 | 6331864 | 120 | 1.2 | 30 | 56 | 97 | 23 | 4 | 845 | 3 | 9.82 | py veining along foliation |
| G 23 | 406814 | 6331394 | 15 | 1.0 | 50 | 35 | 73 | 9 | 3 | 110 | 5 | 10.96 | diss. py + cp, abundant hem |
| G 24 | 403554 | 6331368 | 30 | 5 | 127 | 84 | 68 | 18 | 5 | 136 | 12 | 9.21 | pyritic feldspar porphyry, 1-2 % py |
| G 24 dup | 403554 | 6331368 | 60 | 6 | 124 | 88 | 69 | 17 | 5 | 120 | 12 | 9.10 | pyritic feldspar porphyry, 1-2 % py |
| G 25 | 392089 | 6331274 | <5 | 0.6 | 14 | 4 | 75 | 13 | 4 | 9 | 3 | 2.35 | hem altered boulder |
| G 26 | 403373 | 6331214 | <5 | 1 | 550 | 28 | 45 | 12 | 47 | 17 | 1 | 3.80 | pyritic feldspar porphyry, 1-2 % py |
| G 27 | 408354 | 6331098 | - | <0.5 | 11 | 7 | 108 | 6 | <3 | - | - | 6.22 | pyritic syenite porphyry, 2 % finely diss py |
| G 28 | 390897 | 6329708 | <5 | <0.5 | 5 | 8 | 10 | <2 | <3 | 2 | 0.5 | 1.43 | sil. brcc. rhyolite, with 2% specular hem |
| G 29 | 398868 | 6329207 | <5 | <0.5 | 7 | 9 | 4 | <2 | <3 | 6 | 2 | 0.53 | diss. py + hm in flow-layered rhyolite |
| G 30 | 389680 | 6328165 | <5 | 1.8 | 900 | 464 | 236 | <2 | <3 | 7 | 3 | 1.01 | qtz-hem altered tuff w/ minor ml+cpy |
| G 31 | 397792 | 6326936 | <5 | 0.8 | 0.17% | 12 | 80 | 10 | <3 | 22 | 2 | 4.80 | sheared chloritic volcs, with trace diss py + cpy |
| G 32 | 393256 | 6325752 | 380 | 10 | 193 | 38 | 18 | 3 | 11 | 750 | 5 | 13.7 | qtz vein, py to 7% as bleb + fract-fillings |
| G 33 | 395829 | 6324656 | <5 | 0.5 | 16 | 6 | 31 | 6 | <3 | 5 | 2 | 4.97 | altered breccia w/ specular hem veinlets |
| G 34 | 380683 | 6322808 | <5 | 1.6 | 65 | 22 | 62 | 16 | <3 | 11 | 5 | 5.17 | oxidized pyritic schistose tuff |
| G 35 | 382586 | 6322322 | <5 | 0.8 | 126 | 13 | 107 | 10 | 3 | 20 | 2 | 6.14 | iron-carb alt along joints |
| G 36 | 393184 | 6322314 | <5 | 0.5 | 7 | 6 | 5 | 4 | 8 | 2 | 2 | 1.66 | hem + manganese gossan zone in grnt |
| G 37 | 393183 | 6322311 | <5 | 0.5 | 4 | 4 | 14 | 3 | 8 | 2 | <0.5 | 1.70 | sericite-qtz-py filled fract, grnt |
| G 38 | 382536 | 6321866 | 35 | 2.8 | 610 | 102 | 125 | 10 | 13 | 60 | 4 | 14.34 | pyritic qtz vein |
| G 39 | 391871 | 6321158 | <5 | <0.5 | 129 | 6 | 13 | 13 | <3 | 3 | 1 | 2.08 | narrow qtz veinlets, 1-2% coarse py + aspy |
| G 40 | 401126 | 6320950 | <5 | <0.5 | 4 | 6 | 14 | 29 | <3 | 1 | <0.5 | 0.73 | silicified siltstone |
| G 41 | 383827 | 6320587 | <5 | 0.6 | 2 | 5 | 52 | <2 | <3 | 7 | <0.5 | 2.73 | sil. tuff w/ <0.5% diss. py ; fine qtz vein stwk |
| G 42 | 388711 | 6319621 | <5 | 0.6 | 133 | 14 | 39 | <2 | <3 | 11 | 3 | 12.8 | grab, magnetite-epidote-diopside skarn |
| G 43 | 400130 | 6318270 | 75 | 18 | 0.44% | 276 | 0.44% | <2 | <3 | 600 | 6 | 4.00 | grab of qtz+cpy+sph veins; ml+az stained |

Abbreviations: qtz= quartz, carb= carbonate, py= pyrite, cpy= chalcopyrite, sph= sphalerite, po= pyrrhotite, mgnt= magnetite, ml= malachite, az= azurite, aspy= arsenopyrite, gl= galena, stwk= stockwork, alt= alteration, brcc= breccia, sil= silicification hem= hematite, ser= sericite, tt= tetrahedrite

**ANALYTICAL PROCEDURES**

SAMPLE PREPARATION:

Samples are pulverized to approximately 200 mesh using tungsten carbide equipment.

TRACE ELEMENT ANALYSIS: Ag, Cu, Pb, Zn, As, Sb

Samples (usually 0.5 grams) are digested in Teflon beakers using a mixed acid attack which includes HF. A dilute dissolution of the residue is then diluted to a specific volume and the elements measured using atomic absorption spectroscopy. As and Sb were determined by atomic absorption using a hydride evolution method wherein the hydride ($AsH_3$ or $SbH_3$) is evolved, passing a heated quartz tube in the light path of an atomic absorption spectrometer. Background corrections were made for Pb, As and Sb.

TRACE ELEMENT ANALYSIS: Au

A 20 gram sample is concentrated into a silver bead by the classical fire assay method. The bead is dissolved by aqua regia and gold determined by graphite furnace atomic absorption spectroscopy.

## TABLE 1992-5-2: MACRO FAUNA COLLECTION FOR THE MORE CREEK MAP AREA, 104G/ 2.

| GSC Loc. Number | Sample Number | UTM Zone 9 East | UTM Zone 9 North | Strat Unit | Fauna-Description | Age | Ref. |
|---|---|---|---|---|---|---|---|
| -0005489 | NA | unknown | unknown | mJHsl | Conifer imprints resembling species *Elatides*, *Sequoia* and *Geinitzia* | Jurassic and Cretaceous | 2 |
| -0028945 | NA | 405250 | 6342300 | uTSsl | *Halobia* sp. *Juvavites* sp. *Arcestes* sp. | Upper Triassic, prob. Carnian, pos. early Norian | 2 |
| -0032780 | NA | 408000 | 408000 | uTSsn | *Halobia* sp. indet. | Upper Triassic | 2 |
| -0037110 | NA | unknown | unknown | mJHsl | *Sonniniids* gen. et sp. indet. | Middle Bajocian | 2 |
| -0040481 | NA | unknown | unknown | mJHsl | *Trigonia* sp. *Pecten* spp. pelecypods | Middle Jurassic? | 2 |
| O007942 | NA | 408900 | 6330300 | uTSlm | NA | Prob. Late Triassic | 3 |
| C116289 | NA | 401425 | 6319300 | lJHsl | NA | Early Jurassic, probably Late Toarcian | 3 |
| C116290 | NA | 401725 | 6320100 | lJHsl | NA | Early Jurassic, probably Late Toarcian | 3 |
| C167835 | 91JDR02-07 | 404300 | 6329950 | uTSs | In progress | | |
| C167836 | 91JDR04-03 | 402350 | 6333950 | uTSsn | In progress | | |
| C167837 | 91JDR06-04 | 409250 | 6338650 | uTSsn | In progress | | |
| C167838 | 91JDR07-13-2 | 404200 | 6339950 | uTSsn | In progress | | |
| C167846 | 91JDR02-02 | 404075 | 6330850 | uTSsn | In progress | | |
| C189406 | 91JLO01-04 | 386100 | 6326475 | DSlm | *Favosites* sp. stromatoporoid, rugose corals | Lower-middle Devonian | 4 |
| C189407 | 91JLO01-03 | 386100 | 6326475 | DSlm | *Favosites* sp. stromatoporoid, rugose corals | Lower-middle Devonian | 4 |
| C189408 | 91JLO01-05 | 386100 | 6326475 | DSlm | *Favosites* sp. stromatoporoid, rugose corals | Lower-middle Devonian | 4 |
| C189434 | 91JLO12-153 | 386400 | 6342000 | PSlm | indeterminate | | 5 |
| C189435 | 91DEL12-6 | 388250 | 6344750 | PSlm | Spiriferella brachiopod | Early Permian | 5 |
| C189436 | 91JDR12-07 | 388530 | 6344620 | PSlm | brachiopod, 3 genera | Early Permian | 5 |
| C189437 | 91JDR12-08 | 388500 | 6344700 | PSlm | brachiopod, colonial coral, fusulinacean foraminifers | Lower Permian | 5 |
| C189754 | 91JLO18-246-2 | 409300 | 6338700 | uTSsn | *`Pecten'* sp. bivalves, indet., gastropod, indet. | Not determinable | 1 |
| C189755 | 91DEL18-01 | 405350 | 6337150 | uTSsn | In progress | | |
| C189756 | 91DEL18-04 | 405450 | 6336800 | uTSs | In progress | | |
| C189764 | 91DEL16-13 | 386750 | 6344600 | PSlm | clisiophyllid coral, poss. fusulinacean foraminifers | Late Carboniferous or Permian | 5 |
| C189765 | 91JDR24-10 | 400800 | 6331650 | lJHsl | In progress | | |
| C189766 | 91JDR24-02 | 399850 | 6329800 | lJHsl | plant (?) fragments | Not determinable | 1 |
| C189767 | 91JDR22-13 | 386650 | 6326100 | DSlm | *Favosites* sp. stromatoporoid, rugose corals | Lower-middle Devonian | 4 |
| C189768 | 91JLO25-351 | 401950 | 6321100 | mJHsl | ammonites, indet. | Not determinable | 1 |
| C189769 | 91JDR25-07 | 401150 | 6319100 | mJHsl | *Astarte* sp. bivalves, indet.gastropod,indet. | Probably Jurassic, not differentiable | 1 |
| C189770 | 91JLO25-343 | 401750 | 6320100 | mJHsl | *Myophorella* sp. *Trigonia* sp. ivalves, indet. *Mclearnia(?)* sp. gastropod,indet. corals, indet. | Probably Bathonian | 1 |
| C189771 | 91JLO25-347 | 401550 | 6320550 | mJHsl | In progress | | |
| C189772 | 91JDR26-02-02 | 406350 | 6319350 | lJHsl | *Asteroceras(?)* sp. | Early Jurassic, Late Sinemurian | 1 |
| C189783 | 91JLO35-433 | 386100 | 6342150 | PSlm | Fusulinacean foraminifers | Early Permian | 5 |
| C189784 | 91JLO35-343-2 | 386100 | 6342150 | PSlm | Fusulinacean foraminifers | Early Permian | 5 |
| C189785 | 91JLO34-429 | 400650 | 6322300 | mJHsl | *Tmetoceras* sp. | Late Aalenian or late Early Aalenian | 1 |
| C189795 | 91JLO35-437 | 386450 | 6341400 | mTs | In progress | | |
| C189799 | 91DHA01 | 410100 | 6336900 | uTSsn | In progress | | |

REFERENCES:

1. Poulton, T.P. (1991): Report on 7 Collections of Jurassic and Triassic(?) Fossils; Institute of Sedimentary and Petroleum Geology-Geological Survey of Canada, Report No. J5-1991-TPP.
2. Souther, J.G. (1972): Telegraph Map Sheet, Geological Survey of Canada, Paper 71-44
3. Read P.B., Brown, R.L., Psutka, J.F., Moore, J.M., Journeay, M., Lane, L.S. and Orchard, M.J.(1989): Geology of Parts of Snippaker Creek (104B/10), Forrest Kerr Creek (104B/15), Bob Quinn Lake (104B/16), Iskut River (104G/1) and Moore Creek (104G/02); Geological Survey of Canada, Open File 2094.
4. A. Pedder, personal communication (1991): Preliminary Fossil Identification; Institute of Sedimentary and Petroleum Geology, Geological Survey of Canada.
5. E. W. Bamber, personal communication (1991): Preliminary Fossil Identifications; Institute of Sedimentary and Petroleum Geology, Geological Survey of Canada.

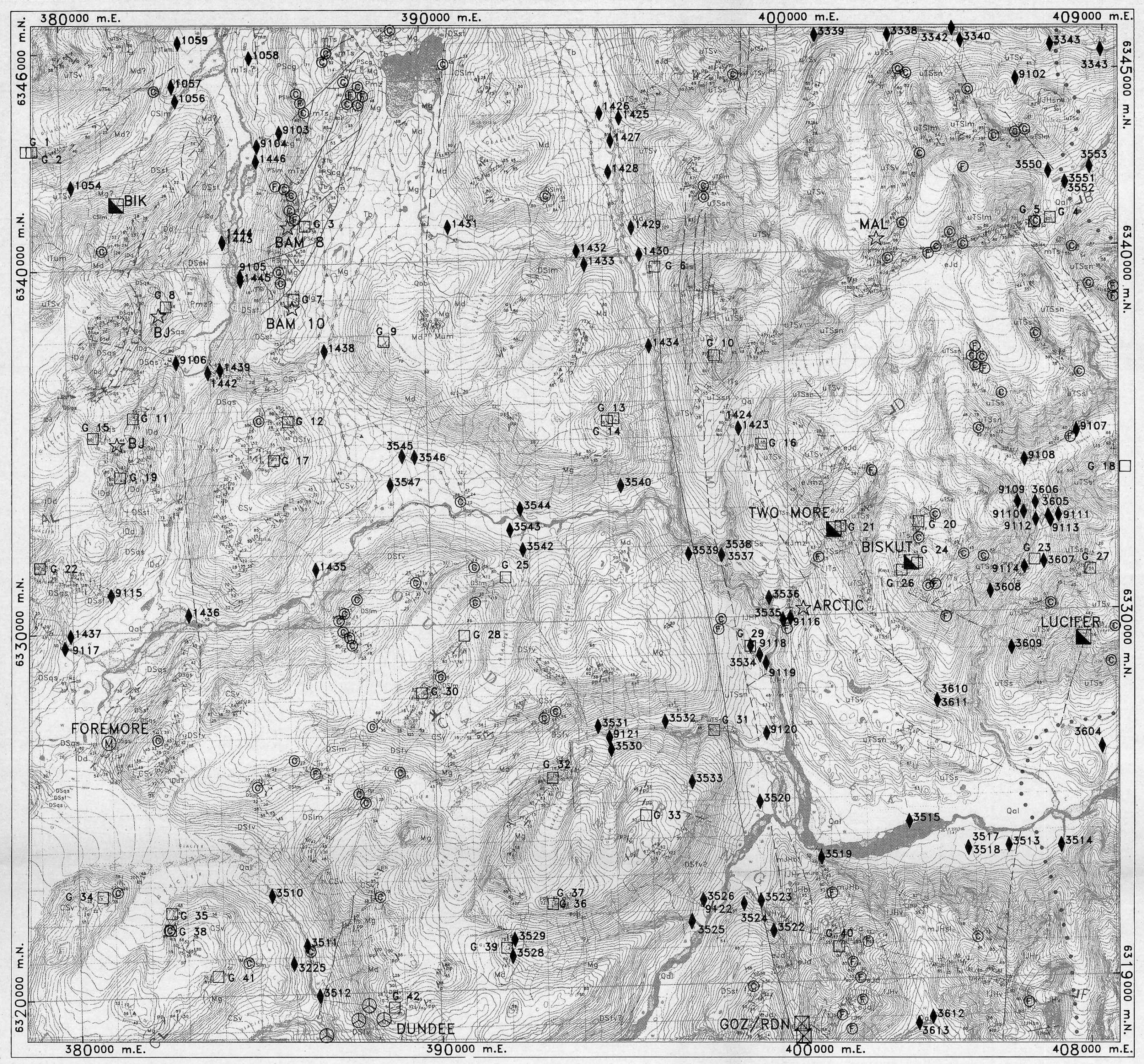
## TABLE 1992-5-3: CONODONT SAMPLE LIST FOR THE MORE CREEK MAP AREA, 104G/2.

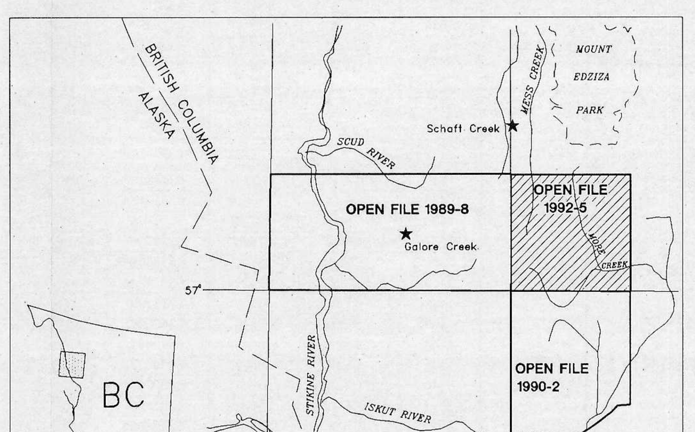
| GSC Loc. Number | Sample Number | UTM Zone 9 East | UTM Zone 9 North | Strat Unit | Age | Reference |
|---|---|---|---|---|---|---|
| C097943 | NA | 408650 | 6329300 | uTSlm | Late Triassic, Carnian | 1 |

| GSC Loc. Number | Sample Number | East | North | Strat Unit | GSC Loc. Number | Sample Number | East | North | Strat Unit | GSC Loc. Number | Sample Number | East | North | Strat Unit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C167839 | 91JLO1-6 | 386100 | 6326475 | CSlm | C189420 | 91DEL12-14 | 388000 | 6345000 | PSlm | C189450 | 91DEL18-10 | 406050 | 6336000 | uTSlm |
| C167840 | 91JDR2-2 | 404075 | 6330850 | uTSlm | C189421 | 91JLO12-153 | 386400 | 6342000 | PSlm | C189751 | 91JDR18-1 | 408350 | 6336500 | uTSlm |
| C167841 | 91JDR5-12 | 398850 | 6344900 | uTSlm | C189422 | 91DEL12-4 | 388200 | 6344500 | PSlm | C189752 | 91JDR18-8 | 407000 | 6337600 | uTSlm |
| C167842 | 91JDR7-14 | 404400 | 6340000 | uTSlm | C189423 | 91JDR12-6-2 | 388500 | 6344500 | PSlm | C189753 | 91JDR17-18 | 384775 | 6320900 | CSlm |
| C167843 | 91DEL7-10 | 403475 | 6344959 | uTSlm | C189424 | 91DEL12-18 | 387400 | 6345650 | uTSlm | C189757 | 91JDR16-12 | 387480 | 6345900 | uTSlm |
| C167844 | 91DEL7-10-1 | 403475 | 6344950 | uTSlm | C189425 | 91JLO12-152 | 386200 | 6342050 | mTs | C189758 | 91JDR19-6-2 | 398100 | 6329850 | uTSlm |
| C167847 | 91JLO5-48 | 397900 | 6341825 | uTSlm | C189426 | 91JDR12-8 | 388500 | 6344700 | PSlm | C189759 | 91JLO21-291 | 407250 | 6340650 | uTSlm |
| C167848 | 91JLO3-24 | 403700 | 6332100 | uTSlm | C189427 | 91JDR9-11 | 393100 | 6339550 | CSlm | C189760 | 91JLO21-308-2 | 404700 | 6340450 | uTSlm |
| C167849 | 91JLO3-13 | 404200 | 6332600 | uTSlm | C189428 | 91JDR12-20 | 389400 | 6346500 | PSlm | C189761 | 91JLO21-306-2 | 405000 | 6340150 | uTSlm |
| C167850 | 91JLO5-49 | 397925 | 6341900 | uTSlm | C189429 | 91DEL13-18 | 382650 | 6345000 | PSlm | C189762 | 91DEL21-1-2 | 405400 | 6344400 | uTSlm |
| C189401 | 91JLO6-65 | 406650 | 6343175 | uTSlm | C189430 | 91DEL14-12 | 391250 | 6331600 | CSlm | C189763 | 91JDR21-3 | 405000 | 6343100 | uTSlm |
| C189402 | 91JLO6-66 | 406700 | 6343175 | uTSlm | C189431 | 91DEL14-5 | 389600 | 6331250 | CSlm | C189774 | 91JDR22-7-1 | 387875 | 6325400 | CSlm |
| C189403 | 91JLO6-62 | 406125 | 6343125 | uTSlm | C189432 | 91JDR14-3 | 389550 | 6331000 | CSlm | C189775 | 91JDR22-5-2 | 388050 | 6325200 | CSlm |
| C189404 | 91JLO7-78 | 403000 | 6339875 | uTSlm | C189433 | 91JLO11-147 | 391200 | 6330700 | CSlm | C189776 | 91DEL23-10-2 | 388250 | 6327350 | DSlm |
| C189405 | 91JLO7-82 | 403400 | 6340775 | uTSlm | C189438 | 91JLO17-234 | 385150 | 6325850 | CSlm | C189777 | 91DEL23-15 | 389100 | 6326000 | DSlm |
| C189409 | 91JDR10-2 | 390750 | 6345450 | PSlm | C189439 | 91JLO18-257 | 408100 | 6340000 | uTSlm | C189778 | 91JDR29-5 | 388400 | 6322650 | CSlm |
| C189410 | 91JLO10-123 | 393400 | 6341800 | CSlm | C189440 | 91JLO16-224 | 386100 | 6339550 | mTs | C189779 | 91JDR29-14 | 386450 | 6321300 | CSlm |
| C189411 | 91DEL11-13 | 388000 | 6330800 | CSlm | C189441 | 91JLO15-205 | 405550 | 6335100 | uTSlm | C189780 | 91DEL29-12 | 393100 | 6327450 | CSlm |
| C189412 | 91DEL11-10 | 387650 | 6330300 | CSlm | C189442 | 91DEL16-13 | 386750 | 6344600 | mTs | C189781 | 91DEL30-10 | 385400 | 6335800 | CSlm |
| C189413 | 91DEL11-7 | 387650 | 6329800 | CSlm | C189443 | 91DEL17-6-2 | 382550 | 6322050 | CSlm | C189787 | 91DEL32-07 | 398800 | 6320000 | PSlm |
| C189414 | 91DEL11-11 | 387600 | 6330450 | CSlm | C189444 | 91DEL17-5-1 | 382550 | 6321900 | CSlm | C189788 | 91DEL33-06 | 405150 | 6321150 | mJHsl |
| C189415 | 91DEL11-8 | 387650 | 6329900 | CSlm | C189445 | 91DEL16-12 | 386750 | 6344250 | PSlm | C189789 | 91JLO35-437 | 386450 | 6341400 | uTSlm |
| C189416 | 91DEL11-6 | 387800 | 6329650 | CSlm | C189446 | 91DEL17-5 | 382550 | 6321900 | CSlm | C189790 | 91JLO32-458 | 381000 | 6322950 | DSst |
| C189417 | 91JLO11-132 | 389750 | 6328150 | CSlm | C189447 | 91DEL18-1 | 405350 | 6337150 | uTSlm | C189791 | 91DEL35-04 | 404800 | 6331590 | uTSlm |
| C189418 | 91JLO11-138 | 390300 | 6328700 | CSlm | C189448 | 91DEL18-3 | 405400 | 6336875 | uTSlm | C189792 | 91DEL35-09-02 | 405470 | 6331440 | uTSlm |
| C189419 | 91DEL12-9 | 387800 | 6344300 | PSlm | C189449 | 91DEL18-4 | 405450 | 6336800 | uTSlm | C189793 | 91JLO36-450 | 407260 | 6330200 | uTSlm |
| | | | | | | | | | | C189794 | 91JDR36-02-02 | 385950 | 6339930 | PSlm |

REFERENCE

1. Read, P.B., Brown, R.L., Psutka, J.F., Moore, J.M., Journeay, M., Lane, L.S. and Orchard, M.J.(1989): Geology of Parts of Snippaker Creek (104B/10), Forrest Kerr Creek (104B/15), Bob Quinn Lake (104B/16), Iskut River (104G/1) and Moore Creek (104G/02); Geological Survey of Canada, Open File 2094.




SCALE 1:100 000

CONTOUR INTERVAL ......... 100 FEET

ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL

NORTH AMERICAN DATUM 1927

TRANSVERSE MERCATOR PROJECTION

**LEGEND**

- Geochemistry sample
- Regional stream sediment sample
- Stratabound veins
- Stratiform massive sulphide
- Gold-copper porphyry
- Gold-silver quartz veins
- Iron-copper gold skarns
- Conodonts
- Macrofossils

## TABLE 1992-5-4: MINERAL OCCURRENCES FOR THE MORE CREEK MAP AREA, 104G/ 2.

| TYPE / PROB. AGE | MINFILE 104G | NAME | HOST | COMMODITY | DESCRIPTION | REFERENCE |
|---|---|---|---|---|---|---|
| **STRATABOUND VEINS** | | | | | | |
| Early Jurassic | | GOZ/RDN | lJHr, eJmz | Au, Ag, Zn, Cu, Pb | Gold-enriched chalcopyrite, sphalerite, galena, pyrite and arsenopyrite-bearing veins hosted in silicified and pyritized `Mount Dilworth equivalent' rocks. Mineralization and alteration related to coeval subvolcanic feldspar porphyritic monzonite intrusives.<br>WEDGE ZONE 11.6 g/t Au over 4.4 m<br>SOUTH BOUNDARY ZONE 23.9 g/t Au over 11.6 m<br>MAIN GOSSAN ZONE 18.6 g/t Au over 0.4 m | EMPR ASS RPT # 20,769 (Savelle, 1990) |
| **STRATIFORM MASSIVE SULPHIDE** | | | | | | |
| Devonian-Mississippian | | FOREMORE | DSst, DSfv, DSlm | Zn, Pb, Cu, Ag | Laminated sphalerite and galena occur in felsic volcanic horizons within foliated package of graphitic schist, argillite and intermediate to mafic volcanics of Devonian-Mississippian age. Mineralized boulders include pyrite, sphalerite and chalcopyrite-rich varieties.<br>Cu % / Pb % / Zn % / Ag g/t / Au g/t / Fe %<br>chalcopyrite-rich (n=12): 2.3 / 0.5 / 6.2 / 186 / 1.5 / 16<br>sphalerite-rich (n=29): 0.22 / 3.5 / 10.2 / 96 / 1 / 16<br>pyrite-rich (n=112): trace / 1 / 6.2 / 78 / nil / 23 | EMPR ASS RPT # 19,379 (Barnes,1989)<br>EMPR ASS RPT # 18,105 (Mawer, 1988) |
| **GOLD-COPPER PORPHYRY** | | | | | | |
| Late Triassic - Early Jurassic | 79 | LITTLE LES, TWO MORE | uTSs, ITs | Cu, Au, Ag | Disseminated and veinlet chalcopyrite mineralization in a propylitic-pyrite alteration zone associated with potassium feldspar porphyry syenite dykes.<br>grab sample, 5.9 % Cu and 13.1 g/t Au | EMPR ASS RPT # 20,667 (Bobyn, 1990)<br>EMPR ASS RPT # 9,041 (Folk, 1981) |
| Late Triassic - Early Jurassic | | LUCIFER | uTSv, ITs | Cu, Au | Structurally controlled propylitic alteration zone (1 x 2 km) coincident with potassium feldspar porphyry syenite dike swarm. Mineralization includes chalcopyrite, galena and gold in quartz-carbonate pyrite veins. | EMPR ASS RPT # 21,091 (Baerg and Wong, 1991) |
| Late Triassic - Early Jurassic | | BISKUT, BIS | uTSsn, ITs | Au, Au, Cu, Pb, Zn | Quartz-sericite-pyrite-clay alteration zone (300 m x 50-100 m wide ). All original textures obliterated by supergene leaching. Contains up to 5 % pyrite, minor galena and arsenopyrite. | EMPR ASS RPT # 19,605 (Brown, 1990) |
| **GOLD-SILVER-QUARTZ VEINS** | | | | | | |
| Early Jurassic | 27 | BAM 8, ARCTIC | PScg, PSlm | Cu, Ag, Zn | Disseminated blebs and veinlets of tetrahedrite, minor chalcopyrite, pyrite, sphalerite and galena occupy fractures and breccia zones in limestone, sandstone and conglomerate. Mineralization and carbonate alteration follow northeasterly trending structures.<br>INVENTORY<br>Tonnes / Cu % / Ag g/t<br>Southwest Zone: 299 400 / 0.76 / N.A.<br>East Zone: 4 540 / 2.45 / 17.83 | Souther (1972)<br>EMPR ASS RPT # 11,575 (Dearin, 1983)<br>EMPR ASS RPT # 12,561 (Gillen et al.,1984)<br>EMPR ASS RPT # 695 (Rayner, 1965) |
| Early Jurassic | 49 | BIK | CSlm, ?PSlm | Cu, Ag, Zn, Pb | Disseminated replacements and thin selvages of tetrahedrite occupy fractured and silicified limestone. Mineralization is controlled by subvertical and flat north-trending joints. A grab sample of mineralization returned 819.0 g/t silver, 13.0 % copper, 2.8 % zinc and 0.2 % lead. | EMPR ASS RPT # 590 (Lammle, 1964) |
| Early Jurassic | 110 | BAM 10 | Mg, Md | Au, Ag, Bi | Gold and fine-grained pyrite occur in quartz and carbonate veinlets in fractured granite. Discontinuous mineralization occupies silicified and sericitized fault and shear zones in the granite. Gold values range from 8.57 g/t over 18.9 m in trench 86-1 to 1.72 g/t over 2.43 m in DDH 87-1, drilled to test the ground beneath Trench 86-1. | EMPR ASS RPT # 17,570 (Diner, 1987)<br>EMPR ASS RPT # 15,827 (Hewgill and Walton, 1986)<br>EMPR ASS RPT # 14,859 (Walton, 1986) |
| Early Jurassic | 70 | BJ | DSqs, lDd | Au, Cu, Pb, Zn, Ag | Mineralization includes mesothermal quartz veins and an iron carbonate breccia zone. Veins contain pyrite, tetrahedrite, chalcopyrite, sphalerite, trace arsenopyrite, galena, gold and prominent iron-carbonate alteration envelope. Northeast-trending quartz veins crosscut strata, iron carbonate breccia is strataform. Free gold occurs in creeks below the showing. | Holbek (1988)<br>EMPR ASS RPT # 14,982 (Folk, 1986)<br>EMPR ASS RPT # 9,692 (Holbek, 1982) |
| Early Jurassic | | Mal | uTSs, uTSv | Au, Ag | Gold and silver mineralization occurs as silicified and pyritized shears in volcanics and sediments. Gold and silver soil anomolies define a 200 metre zone below the sediment hosted gossan. Known mineralization is discontinuous and low grade. | EMPR ASS RPT # 18,722 (Westcott, 1989)<br>EMPR ASS RPT # 20,412 (Pegg, 1990) |
| **IRON-COPPER-GOLD SKARNS** | | | | | | |
| Carboniferous | | DUNDEE, GLA | DSst, Mg, PP | Fe, Cu, Zn, Au | Iron-copper skarns develop where feldspar-porphyritic andesite dikes intrude granite and carbonate pendant rocks. Mineralization comprises magnetite and lesser pyrite, pyrrhotite, chalcopyrite, sphalerite and gold. | Webster et al. (1991) |

## TABLE 1992-5-5A: REGIONAL STREAM SEDIMENT DATA FOR THE MORE CREEK MAP AREA, 104G/ 2.

| MAP NO. | ROCK UNIT | EASTING | NORTHING | CU | AU1 | AG | PB | ZN | NI | CO | MO | SN | W | AS | SB | HG | BA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ANALYTICAL METHOD | | | | AAS | FA / INAA | AAS | AAS | AAS | AAS | AAS | AAS | AAS | COLOR | AAS-H | AAS-H | *AAS | XRF/INAA |
| DETECTION LIMITS | | | | 2 ppm | 2 / 5 ppb | 0.1 ppm | 2 ppm | 2 ppm | 2 ppm | 2 ppm | 1 ppm | 2 ppm | 2 ppm | 1 ppm | 0.2 ppm | 5 ppm | 20/100 ppm |
| **Tertiary to Recent Volcanics (n= 4)** | | | | | | | | | | | | | | | | | |
| 1425 | PPvb | 395568 | 6343826 | 62 | 2 | 0.2 | 5 | 93 | 18 | 13 | 2 | 4 | 2 | 8 | 0.6 | 20 | 764 |
| 1426 | PPvb | 395030 | 6343974 | 75 | 275 | 0.1 | 29 | 71 | 47 | 19 | 2 | 1 | 2 | 4 | 0.4 | 10 | 839 |
| 3545 | PPvb | 389284 | 6334672 | 61 | 1 | 0.1 | 4 | 55 | 17 | 20 | 1 | 1 | 2 | 1 | 0.3 | 20 | 258 |
| 3547 | PPvb | 388941 | 6333877 | 51 | 2 | 0.1 | 4 | 70 | 19 | 15 | 1 | 2 | 2 | 3 | 0.7 | 55 | 414 |
| **Lower to Middle Jurassic Hazelton Group (n= 15)** | | | | | | | | | | | | | | | | | |
| 1446 | Jcg | 385437 | 6342893 | 33 | 1 | 0.3 | 14 | 121 | 48 | 9 | 3 | **13** | 2 | 7 | 2.0 | 130 | 526 |
| 3553 | Jcg | 408615 | 6342154 | 49 | 49 | 3.0 | 28 | 86 | 4 | 11 | 4 | 1 | 2 | 86 | 0.1 | **2145** | 1274 |
| 3513 | JHs | 405905 | 6323595 | 56 | 1 | 0.4 | 9 | 170 | 25 | 12 | 3 | 4 | 2 | 9 | 1.1 | 65 | 1591 |
| 3517 | JHs | 404780 | 6323543 | 37 | 20 | 0.6 | 11 | 208 | 36 | 10 | 5 | 2 | 2 | 13 | 1.3 | 80 | 1043 |
| 3518 | JHs | 404780 | 6323543 | 36 | 4 | 0.7 | 9 | 227 | 36 | 10 | 5 | 1 | 2 | 13 | 1.1 | 70 | 1062 |
| 3519 | JHs | 400686 | 6323386 | 55 | 3 | 0.1 | 15 | 135 | 26 | 15 | 3 | 1 | 2 | 9 | 1.2 | 125 | 1134 |
| 9118 | JHs | 398868 | 6329207 | 34 | 8 | 0.1 | 4 | 77 | 52 | 10 | 2 | 1 | 1 | 6.8 | 0.8 | 70 | 960 |
| 9118 | JHs | 398868 | 6329207 | 35 | 7 | 0.2 | 4 | 81 | 55 | 11 | 2 | 1 | 2 | 7.6 | 1.5 | 50 | 1100 |
| 9119 | JHs | 399286 | 6328726 | 70 | **91** | 0.2 | 7 | 74 | 15 | 11 | 2 | 1 | 1 | 5.4 | 1 | 40 | 600 |
| 9116 | JHs | 399999 | 6329957 | 46 | <5 | 0.3 | 19 | 114 | 10 | 9 | 3 | 1 | 1 | 24 | 3.8 | 190 | 1000 |
| 9123 | JHs | 405451 | 6318661 | 29 | <5 | 0.1 | 17 | 108 | 9 | 6 | 3 | 1 | 1 | 6 | 1 | 60 | 990 |
| 9120 | JHs | 399251 | 6326817 | 34 | <5 | 0.2 | 5 | 152 | 19 | 10 | 3 | 0.5 | 1 | 10 | 1 | 60 | 1000 |
| 3225 | JKs | 385945 | 6320876 | 53 | 10 | 0.1 | 15 | 139 | 16 | 12 | 1 | 2 | 2 | 8 | 0.7 | 40 | 509 |
| 3612 | Jp | 403691 | 6318961 | 45 | 7 | 0.1 | 14 | 282 | 34 | 10 | 7 | 1 | 2 | 13 | 1.4 | 60 | 1544 |
| 3613 | Jp | 403216 | 6318689 | 61 | 1 | 0.1 | 11 | 100 | 20 | 15 | 2 | 7 | 2 | 11 | 1.4 | 50 | 1009 |
| **Upper Triassic Stuhini Group and Middle Triassic sediments (N=38)** | | | | | | | | | | | | | | | | | |
| 3608 | uTc | 405565 | 6330551 | 122 | 7 | **0.9** | 15 | **229** | 43 | 18 | **10** | 4 | 2 | 17 | 2.9 | 120 | 839 |
| 3609 | uTc | 406112 | 6328985 | **137** | 4 | 0.1 | 14 | 86 | 13 | 18 | 2 | 7 | 2 | 8 | 1.8 | 100 | 1418 |
| 9109 | uTSs | 406382 | 6332972 | 57 | <5 | 0.4 | 5 | 100 | 20 | 9 | 3 | 0.5 | 1 | 8.6 | 1.2 | 40 | 590 |
| 9110 | uTSs | 406545 | 6332689 | 75 | <5 | **0.8** | 10 | 165 | 26 | 11 | **11** | 0.5 | 2 | 20 | 2.2 | 70 | 830 |
| 9112 | uTSs | 406874 | 6332475 | 64 | 11 | 0.4 | 3 | 127 | 24 | 10 | **8** | 0.5 | 2 | 11.6 | 1.6 | 130 | 750 |
| 9114 | uTSs | 406529 | 6331198 | 94 | 9 | 1 | 8 | **240** | 41 | 12 | **21** | 0.5 | 3 | 24 | 3.2 | 110 | 1400 |
| 9111 | uTSs | 407507 | 6332586 | 81 | <5 | 0.4 | 4 | 158 | 25 | 10 | **8** | 0.5 | 1 | 8.8 | 2 | 140 | 1400 |
| 9113 | uTSs | 407282 | 6332445 | 80 | 9 | 0.4 | 5 | 143 | 24 | 9 | **8** | 1 | 1 | 8.4 | 1.4 | 140 | 1200 |
| 9108 | uTSs | 406601 | 6334145 | 60 | 36 | 0.4 | 26 | 159 | 21 | 15 | 3 | 0.5 | 1 | 28 | 1.5 | 30 | 1200 |
| 9107 | uTSs | 408065 | 6334901 | 63 | <5 | 0.5 | 9 | **240** | 28 | 11 | 2 | 0.5 | 1 | 21 | 2.8 | 70 | 1300 |
| 1423 | uTsv | 398679 | 6335184 | 69 | 12 | 0.1 | 17 | 84 | 24 | 14 | 1 | 3 | 2 | 13 | 1.0 | 25 | 1052 |
| 1424 | uTsv | 398679 | 6335190 | 70 | 24 | 0.1 | 18 | 85 | 24 | 15 | 1 | 2 | 2 | 15 | 1.0 | 20 | 1032 |
| 3338 | uTsv | 403103 | 6345926 | 85 | 4 | 0.4 | 11 | 103 | 24 | 14 | **6** | **9** | 2 | 15 | 1.3 | 25 | 972 |
| 3339 | uTsv | 401077 | 6345965 | 105 | 1 | 0.1 | 9 | 73 | 14 | 21 | 1 | 4 | 2 | 3 | 0.3 | 10 | 450 |
| 3340 | uTsv | 405126 | 6345716 | 63 | 9 | 0.2 | 15 | 92 | 19 | 13 | 2 | 3 | 2 | 27 | 1.8 | 20 | 935 |
| 3342 | uTsv | 404903 | 6346056 | 108 | 1 | 0.3 | 11 | 92 | 22 | 25 | 2 | **9** | 2 | 23 | 1.5 | 65 | 1025 |
| 3343 | uTsv | 407614 | 6345549 | 63 | 12 | 0.2 | 13 | 84 | 18 | 13 | 3 | **8** | 2 | 25 | 1.1 | 25 | 965 |
| 3548 | uTsv | 409001 | 6345667 | 58 | 6 | 0.1 | 12 | 19 | 7 | 14 | 1 | 7 | 2 | 9 | 2.4 | 145 | 1333 |
| 3550 | uTsv | 407469 | 6342051 | 56 | 1 | 0.3 | 7 | 105 | 37 | 12 | 3 | **10** | 2 | 9 | 1.0 | 25 | 1039 |
| 3551 | uTsv | 407928 | 6341745 | 60 | 42 | 0.2 | 6 | 67 | 31 | 15 | 2 | 4 | 2 | 16 | 1.0 | 20 | 5439 |
| 3552 | uTsv | 407928 | 6341745 | 58 | 21 | 0.2 | 6 | 63 | 31 | 14 | 1 | 6 | 2 | 10 | 0.9 | 20 | 1107 |
| 3604 | uTsv | 408559 | 6326234 | 77 | 7 | 0.4 | 14 | 99 | 15 | 14 | **8** | 6 | 2 | 13 | 2.8 | 95 | **1617** |
| 3605 | uTsv | 407223 | 6332563 | 74 | 1 | 0.3 | 9 | 181 | 37 | 13 | **9** | **8** | 2 | 6 | 1.6 | 115 | 1323 |
| 3606 | uTsv | 406874 | 6332944 | 85 | 1 | 0.3 | 11 | 116 | 42 | 13 | 4 | **9** | 2 | 12 | 1.7 | 50 | 1376 |
| 3607 | uTsv | 407070 | 6331327 | 97 | 1 | 0.5 | 12 | 204 | 44 | 15 | **16** | **9** | 2 | 19 | 2.8 | 150 | **1943** |
| 1054 | uTv | 380299 | 6342297 | 35 | 1 | 0.1 | 11 | 38 | 24 | 10 | 4 | **8** | 2 | 15 | 2.0 | 95 | 1135 |
| 3514 | uTvd | 407360 | 6323572 | 70 | 3 | 0.1 | 12 | 126 | 16 | 13 | 1 | 3 | 2 | 5 | 0.7 | 65 | 1101 |
| 3515 | uTvd | 403153 | 6324318 | 48 | 1 | 0.1 | 8 | 71 | 15 | 13 | 1 | 3 | 2 | 7 | 0.9 | 35 | 766 |
| 3520 | uTvd | 399021 | 6324956 | 53 | 1 | 0.1 | 6 | 73 | 11 | 12 | 2 | 1 | 2 | 12 | 0.4 | 25 | 753 |
| 3522 | uTvd | 399321 | 6321425 | 57 | 2 | 0.1 | 18 | 164 | 33 | 17 | 2 | 5 | 2 | 25 | 1.7 | 160 | 1198 |
| 3523 | uTvd | 398991 | 6322250 | 30 | 1 | 0.2 | 12 | 113 | 16 | 12 | 2 | 5 | 2 | 12 | 1.2 | 80 | 866 |
| 3524 | uTvd | 398513 | 6322181 | 50 | 1 | 0.2 | 10 | 103 | 20 | 13 | 1 | 2 | 2 | 12 | 1.9 | 85 | 859 |
| 3534 | uTvd | 399117 | 6328957 | 35 | 3 | 0.1 | 10 | 75 | 32 | 11 | 1 | 1 | 2 | 7 | 1.1 | 40 | 951 |
| 3535 | uTvd | 399793 | 6329905 | 43 | 1 | 0.1 | 14 | 86 | 8 | 11 | 2 | 5 | 2 | 16 | 1.4 | 125 | 1178 |
| 3536 | uTvd | 399415 | 6330515 | 46 | 4 | 0.1 | 15 | 81 | 19 | 14 | 1 | 2 | 2 | 12 | 0.9 | 35 | **1614** |
| 3610 | uTvd | 404012 | 6327596 | 134 | 34 | 0.1 | **32** | 94 | 16 | 20 | 5 | **9** | 2 | 39 | 2.4 | 155 | **2048** |
| 3611 | uTvd | 404012 | 6327589 | 125 | 31 | 0.3 | 28 | 92 | 14 | 17 | 4 | **8** | 2 | 38 | 1.6 | 110 | **2121** |
| 9101 | mTs | 385020 | 6346777 | 47 | 9 | 0.1 | 9 | 78 | **96** | 15 | 2 | 0.5 | 1 | 6.8 | 0.6 | 50 | 690 |
| **Paleozoic Stikine assemblage (n= 26)** | | | | | | | | | | | | | | | | | |
| 1056 | CPsn | 383241 | 6344613 | 42 | 2 | 0.2 | 13 | 42 | 26 | 12 | 2 | 7 | 2 | 7 | 2.2 | 90 | 1116 |
| 1435 | CPsn | 386809 | 6331617 | 29 | 1 | 0.1 | 6 | 58 | 14 | 10 | 4 | 2 | 2 | 2 | 0.5 | 30 | 492 |
| 1436 | CPsn | 383250 | 6330455 | 15 | 5 | 0.1 | 6 | 50 | 12 | 9 | 2 | 2 | 2 | 2 | 0.2 | 10 | 389 |
| 1437 | CPsn | 379963 | 6329956 | 72 | 49 | 1.0 | 10 | 70 | 34 | 21 | 1 | 5 | 2 | 47 | **5.5** | 90 | 1293 |
| 1438 | CPsn | 387205 | 6337609 | 49 | 1 | 0.1 | 4 | 45 | 17 | 13 | 1 | 2 | 2 | 2 | 0.5 | 35 | 346 |
| 1439 | CPsn | 384294 | 6337174 | 46 | 1 | 0.1 | 5 | 45 | 22 | 14 | 1 | 3 | 2 | 3 | 1.0 | 40 | 447 |
| 1442 | CPsn | 383956 | 6337103 | 80 | **457** | 0.4 | 13 | 82 | 33 | 20 | 1 | 6 | 2 | 56 | 1.8 | 45 | 1484 |
| 1443 | CPsn | 384447 | 6340698 | 56 | 13 | 0.1 | 11 | 83 | 55 | 21 | 1 | 7 | 2 | 46 | **4.5** | 80 | 1134 |
| 1444 | CPsn | 384454 | 6340691 | 53 | 33 | 0.1 | 11 | 93 | 57 | 22 | 2 | 5 | 2 | 44 | **4.7** | **120** | 1293 |
| 1445 | CPsn | 384925 | 6339622 | 55 | 56 | 0.1 | 11 | 77 | 44 | 18 | 1 | 7 | 2 | 32 | 3.4 | **170** | 1113 |
| 3510 | CPsn | 385378 | 6322727 | 71 | 2 | 0.1 | 13 | 104 | 11 | 15 | 1 | 2 | 2 | 5 | 0.6 | 40 | 436 |
| 3511 | CPsn | 386322 | 6321359 | **125** | 4 | 0.1 | 5 | 70 | 16 | 20 | 1 | 1 | 2 | 3 | 0.3 | 20 | 433 |
| 3512 | CPsn | 386643 | 6319988 | **151** | 3 | 0.1 | 12 | 93 | 21 | 18 | 1 | 1 | 2 | 6 | 0.4 | 20 | 457 |
| 3530 | CPsn | 394903 | 6326483 | 12 | 1 | 0.1 | 2 | 23 | 5 | 6 | 1 | 1 | 2 | 1 | 0.2 | 10 | 1020 |
| 3542 | CPsn | 392584 | 6332021 | 55 | 1 | 0.1 | 3 | 76 | 9 | 12 | 1 | 5 | 2 | 2 | 0.6 | 40 | 388 |
| 3543 | CPsn | 392236 | 6332561 | 43 | 1 | 0.1 | 5 | 61 | 10 | 12 | 1 | 7 | 2 | 4 | 1.1 | 25 | 324 |
| 3544 | CPsn | 392531 | 6333134 | 79 | 3 | 0.1 | 5 | 77 | 12 | 17 | 1 | 1 | 2 | 6 | 0.6 | 20 | 435 |
| 3546 | CPsn | 389633 | 6334635 | 82 | 2 | 0.1 | 7 | 66 | 15 | 16 | 1 | 1 | 2 | 5 | 0.6 | 35 | 493 |
| 9115 | CPsv | 381116 | 6331055 | 94 | 41 | **0.8** | 11 | **188** | 44 | 16 | 5 | 0.5 | 1 | 16 | 3.4 | **130** | **3600** |
| 9106 | CPsv | 383078 | 6337403 | 73 | 48 | 0.3 | 2 | 71 | **95** | **25** | 2 | 0.5 | 2 | 30 | **4.6** | 100 | 1200 |
| 9105 | CPsv | 384923 | 6339726 | 27 | 19 | 0.2 | 7 | 104 | 11 | 10 | **9** | 0.5 | 2 | 8.4 | 2.2 | **180** | 830 |
| 9117 | CPsv | 379795 | 6329630 | 104 | **174** | 0.8 | 8 | 89 | 38 | **25** | 2 | 1 | 2 | **74** | 9 | **180** | **1600** |
| 1058 | Pc | 385324 | 6345748 | 11 | 1 | 0.1 | 9 | 72 | 31 | 6 | 1 | 4 | 2 | 8 | 0.8 | 35 | 793 |
| 9104 | Pcg | 385479 | 6343306 | 25 | <5 | 0.1 | 2 | 38 | 31 | 7 | 1 | 1 | 1 | 6.6 | 0.6 | 80 | 970 |
| 9103 | Pcg | 386111 | 6343662 | 26 | <5 | 0.1 | 2 | 36 | 29 | 7 | 1 | 1 | 1 | 6.2 | 0.4 | 70 | 600 |
| 9102 | Pcg | 406632 | 6344634 | 65 | 22 | **1.3** | 9 | **152** | 19 | 9 | 5 | 0.5 | 2 | 18 | 1.6 | 50 | 1100 |
| **Intrusions (n= 24)** | | | | | | | | | | | | | | | | | |
| 1057 | JKqd | 383152 | 6345021 | 48 | 1 | 0.2 | 17 | 83 | **67** | 16 | 1 | 5 | 2 | 16 | 1.0 | 25 | **6237** |
| 1059 | JKqd | 383362 | 6346212 | 58 | 1 | 0.1 | 11 | 69 | 50 | 16 | 1 | **6** | 2 | 9 | 0.3 | 20 | 389 |
| 1427 | JKqd | 395316 | 6343201 | 42 | 3 | 0.1 | 6 | 53 | 26 | 15 | 1 | 2 | 2 | 2 | 0.4 | 20 | 457 |
| 1428 | JKqd | 395232 | 6342345 | 38 | 3 | 0.1 | 6 | 57 | 26 | 16 | 1 | 4 | 2 | 2 | 0.3 | 15 | 457 |
| 1429 | JKqd | 395829 | 6340791 | 53 | 5 | 0.1 | 9 | 99 | 17 | 15 | 2 | **9** | 2 | 10 | 0.9 | 20 | 704 |
| 1430 | JKqd | 396027 | 6340050 | 61 | 1 | 0.1 | 6 | 72 | 20 | 12 | 2 | **10** | 2 | 5 | 0.5 | 20 | 645 |
| 1431 | JKqd | 390730 | 6340951 | 42 | 1 | 0.1 | 6 | 74 | 17 | 10 | 1 | 4 | 2 | 2 | 0.6 | 35 | 431 |
| 1432 | JKqd | 394282 | 6340187 | 45 | 1 | 0.1 | 3 | 31 | 17 | 12 | 1 | **6** | 2 | 3 | 0.2 | 15 | 263 |
| 1433 | JKqd | 394492 | 6339815 | 22 | 2 | 0.1 | 2 | 21 | 5 | 7 | 1 | 3 | 2 | 1 | 0.1 | 10 | 350 |
| 1434 | JKqd | 396233 | 6337518 | 19 | 1 | 0.1 | 2 | 25 | 5 | 7 | 1 | 4 | 2 | 1 | 0.2 | 10 | 515 |
| 3516 | JKqd | 396541 | 6318820 | 70 | 4 | 0.1 | 5 | 53 | 38 | 19 | 3 | 2 | 2 | **48** | 0.1 | 80 | **3499** |
| 3525 | JKqd | 397032 | 6321728 | 18 | 1 | 0.1 | 2 | 25 | 5 | 7 | 1 | 1 | 2 | 2 | 0.2 | 15 | 837 |
| 3526 | JKqd | 397372 | 6322314 | 55 | 1 | 0.1 | 7 | 68 | 13 | 11 | 1 | 3 | 2 | 3 | 0.3 | 20 | 533 |
| 3528 | JKqd | 392033 | 6320931 | 24 | 1 | 0.1 | 4 | 34 | 7 | 9 | 1 | 1 | 2 | 4 | 0.3 | 25 | 514 |
| 3529 | JKqd | 392097 | 6321381 | 18 | 1 | 0.1 | 2 | 24 | 6 | 7 | 1 | 1 | 2 | 2 | 0.2 | 20 | 786 |
| 3531 | JKqd | 394551 | 6327124 | 39 | 1 | 0.1 | 6 | 55 | 13 | 13 | 1 | 1 | 6 | 4 | 0.5 | 20 | 801 |
| 3532 | JKqd | 396427 | 6327208 | 49 | 1 | 0.1 | 5 | 52 | 14 | 13 | 1 | 1 | 2 | 4 | 0.5 | 40 | 714 |
| 3533 | JKqd | 397138 | 6325545 | 54 | 2 | 0.1 | 3 | 27 | 9 | 15 | 1 | 1 | 2 | 2 | 0.4 | 40 | 484 |
| 3537 | JKqd | 398119 | 6331724 | 67 | 14 | 0.2 | 13 | 89 | 22 | 14 | 1 | 1 | 2 | 6 | 1.0 | 20 | 1044 |
| 3538 | JKqd | 398119 | 6331724 | 64 | 9 | 0.1 | 12 | 79 | 24 | 14 | 1 | 2 | 2 | 6 | 1.0 | 20 | 1049 |
| 3539 | JKqd | 397192 | 6331783 | 18 | 1 | 0.1 | 5 | 30 | 6 | 6 | 1 | 1 | 2 | 2 | 0.3 | 15 | 914 |
| 3540 | JKqd | 395348 | 6333699 | 37 | 1 | 0.1 | 4 | 52 | 11 | 16 | 1 | 2 | 2 | 1 | 0.3 | 15 | 466 |
| 9121 | JKqd | 394861 | 6326805 | 17 | <5 | 0.1 | 2 | 26 | 12 | 6 | 1 | 0.5 | 1 | 1.8 | 0.4 | 30 | 1000 |
| 9122 | JKqd | 397051 | 6321751 | 22 | <5 | 0.1 | 2 | 26 | 5 | 6 | 1 | 1 | 1 | 4.8 | 0.4 | 20 | 900 |

Note: shaded and bold values are 95th percentile or greater as calculated for the five RGS data sets listed in Table 1992-5-5B.

Data from National Geochemical Reconnaisance 1:250 000 Map Series; Iskut, Sumdum-Telegraph Creek and Tulsequah, British Columbia (NTS 104B, G, F and K) MEMPR BC RGS 18, GSC Open File 1645;MEMPR BC 19, GSC Open File 1646; MEMPR BC 20, GSC Open File 1647, 1988.

## TABLE 1992-5-5B: 75th AND 95th PERCENTILES OF THE REGIONAL STREAM SEDIMENT DATA FROM MAP SHEETS 104B, F, G AND K.

| UNIT | | Cu | Au | Ag | Pb | Zn | Ni | Co | Mo | Sn | W | As | Sb | Hg | Ba |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HAZELTON | 75% | 55 | 9 | 0.3 | 14 | 160 | 106 | 19 | 3 | 3 | 3 | 22 | 1.6 | 130 | 1200 |
| (n=538) | 95% | 109 | 63 | 0.8 | 35 | 352 | 141 | 27 | 8 | 5 | 4 | 95 | 5.4 | 300 | 1700 |
| STUHINI | 75% | 88 | 14 | 0.3 | 14 | 120 | 41 | 20 | 3 | 4 | 3 | 21 | 1.6 | 90 | 1100 |
| (n=583) | 95% | 137 | 103 | 0.6 | 32 | 227 | 91 | 30 | 6 | 8 | 5 | 64 | 4.6 | 220 | 1614 |
| STIKINE | 75% | 76 | 15 | 0.2 | 11 | 92 | 36 | 17 | 3 | 3 | 3 | 18 | 1 | 30 | 1100 |
| (n=327) | 95% | 125 | 72 | 0.5 | 27 | 152 | 92 | 25 | 6 | 13 | 5 | 63 | 4.5 | 110 | 1484 |
| INTRUSIONS | 75% | 54 | 11 | 0.2 | 13 | 80 | 21 | 14 | 3 | 3 | 3 | 6 | 0.5 | 25 | 1200 |
| (n=610) | 95% | 149 | 65 | 0.5 | 41 | 146 | 55 | 24 | 9 | 6 | 8 | 34 | 1.4 | 95 | 1700 |

Note: The entire Regional Geochemical Survey database for 104B, F, G and K was sorted on rock codes for the three groups above. The rock code assigned is the lithology at the sample site (based on 1:100 000 geology maps). It may not necessarily reflect the source lithology. Values tabulated are the 75th and 95th percentile for respective elements. Gold in ppb, all other values in ppm.