



AREA COVERED BY FIGURE 11 (1:30,000)

The following table lists the units of rock or soil, if ground data should be named before additional names are used.

- ROCK UNIT LETTERS/NUMBERS**
- A FIRE BRICKS/TUFF (C5 Zone)
  - B MICHIGAN/TUFF (C5 Zone)
  - C COARSE GRAINED TUFF (C5)
  - D FINE LITTE (C4 Zone)
  - E TUFF BRECCIA (C4 Zone)
  - F VOLCANIC BRECCIA (C4 Zone)
  - G FINE GRAINED TUFF (C4 Zone)
  - H FINE GRAINED TUFF (C4 Zone)
  - I ANODITE
  - K SILTSTONE
  - L SANDSTONE/WAGNE
  - M CHERT (CHERT)
  - N DARK SLATE
  - O DARK SLATE (CHERT)
  - P SANDSTONE
  - Q FINE GRAINED TUFF (C4 Zone)
  - R COARSE GRAINED TUFF (C4 Zone)
  - S SILTSTONE
  - T SANDSTONE/WAGNE
  - U CHERT (CHERT)
  - V DARK SLATE
  - W DARK SLATE (CHERT)
  - X SANDSTONE
  - Y FINE GRAINED TUFF (C4 Zone)
  - Z COARSE GRAINED TUFF (C4 Zone)
- UNUK RIVER PROJECT**
- GENEOLOGICAL**
- UNIT NUMBERS**
- 1 MERIC VOLCANIC
  - 2 INTERMEDIATE VOLCANIC
  - 3 VOLCANIC
  - 4 DUCTILE
  - 5 METAMORPHIC
  - 6 UNK-1
  - 7 UNK-2
  - 8 UNK-3
  - 9 UNK-4
  - 10 UNK-5
  - 11 UNK-6
  - 12 UNK-7
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  - 95 UNK-90
  - 96 UNK-91
  - 97 UNK-92
  - 98 UNK-93
  - 99 UNK-94
  - 100 UNK-95
- LITHOLOGICAL**
- SMALL NUMBERS**
- 1 LAMPROPHIRE
  - 2 CLAYE SEDIMENT
  - 3 INTERMEDIATE METAMORPHIC
  - 4 METAMORPHIC
  - 5 METAMORPHIC
  - 6 METAMORPHIC
  - 7 METAMORPHIC
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  - 100 METAMORPHIC

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

# 22,113

NOTE: For claim location see FIGURE 2

SCALE 0 10km

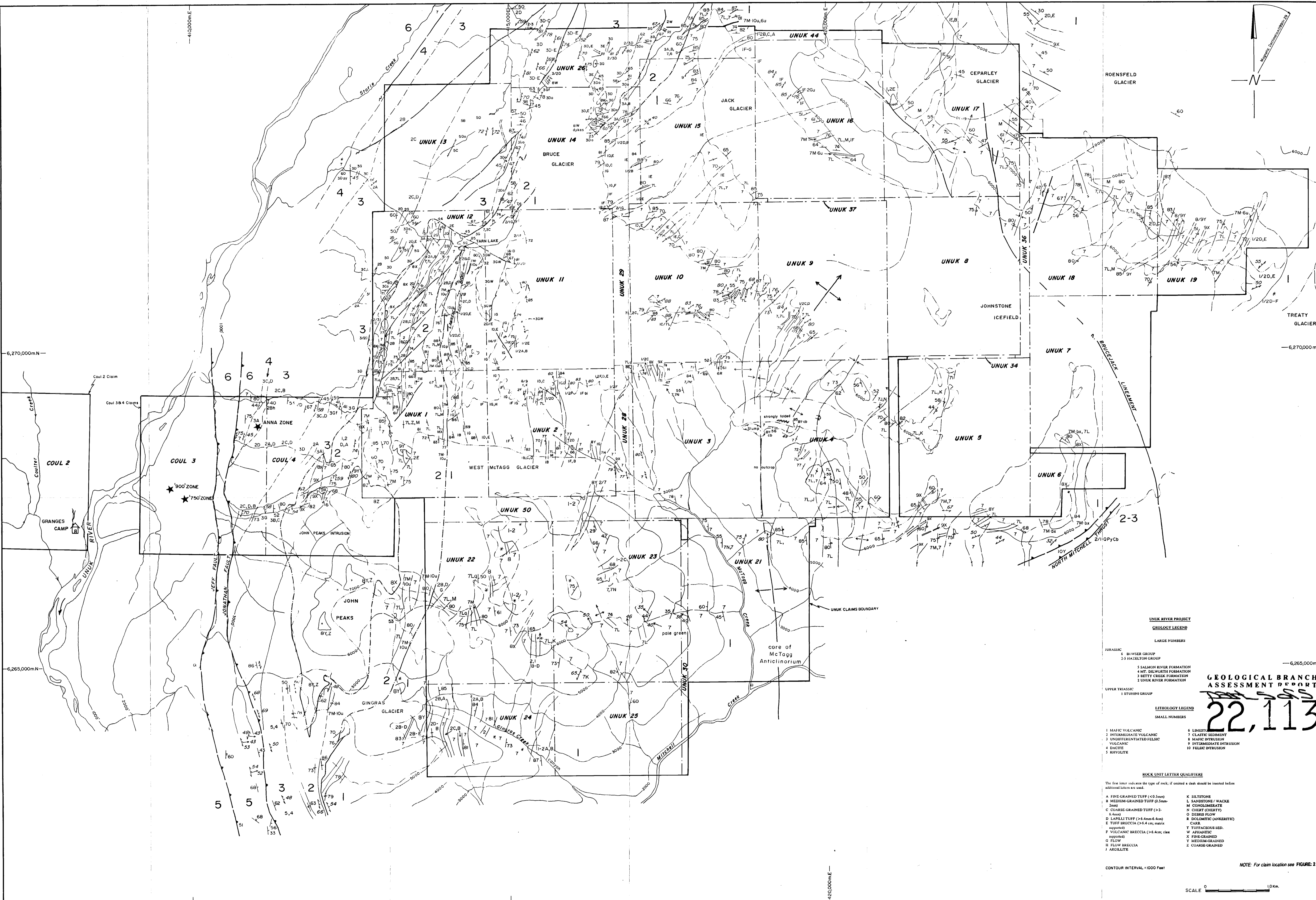
COMPILED BY: J. Payne	DRAWN BY: J. Payne
DATA BY: J.P.G.A., J.T.L.S., R.Z., P.L.(MDRU), R.B.(MDRU)	DATE: Nov, 1991
	SKEENA MINING DIVISION

**GRANGES INC.**  
VANCOUVER, B.C.

UNUK RIVER PROJECT  
PROPERTY GEOLOGY  
- WEST PART -

SCALE: 1" = 20,000  
PROJECT No: 134  
N.T.S. No: 104B/10E

FIGURE 2.A.1.1



- UNUK RIVER PROJECT**  
**GEOLOGY LEGEND**
- LARGE NUMBERS**
- JURASSIC  
 6 BOWSER GROUP  
 25 HAZELTON GROUP
- 5 SALMON RIVER FORMATION  
 4 MT. DILWORTH FORMATION  
 2 BETTY CREEK FORMATION  
 1 UNUK RIVER FORMATION
- UPPER TRIASSIC  
 1 STUHRN GROUP
- LITHOLOGY LEGEND**
- SMALL NUMBERS**
- 1 MAFIC VOLCANIC  
 2 INTERMEDIATE VOLCANIC  
 3 UNDIFFERENTIATED FELSIC VOLCANIC  
 4 DACITE  
 5 RHYOLITE
- 6 LIMESTONE  
 7 CLASTIC SEDIMENT  
 8 MARIC INTRUSION  
 9 INTERMEDIATE INTRUSION  
 10 FELSIC INTRUSION
- ROCK UNIT LETTER QUALIFIERS**
- The first letter indicates the type of rock; if omitted a dash should be inserted before additional letters are used.
- A FINE-GRAINED TUFF (<0.5mm)  
 B MEDIUM-GRAINED TUFF (0.5mm-2mm)  
 C COARSE-GRAINED TUFF (>2-6mm)  
 D LAPILLI TUFF (>6.4mm-6.4cm)  
 E TUFF BRECCIA (>6.4 cm; matrix supported)  
 F VOLCANIC BRECCIA (>6.4cm; clay supported)  
 G FLOW  
 H FLOW BRECCIA  
 J ARGILLITE
- K SILTSTONE  
 L SANDSTONE / WACKLE  
 M CONGLOMERATE  
 N CHERT (CHERTY)  
 O DEBRIS FLOW  
 R DOLOMITIC (ANKERITIC) CARB.  
 T TUFFACEOUS SED.  
 W APHANTIC  
 X FINE-GRAINED  
 Y MEDIUM-GRAINED  
 Z COARSE-GRAINED

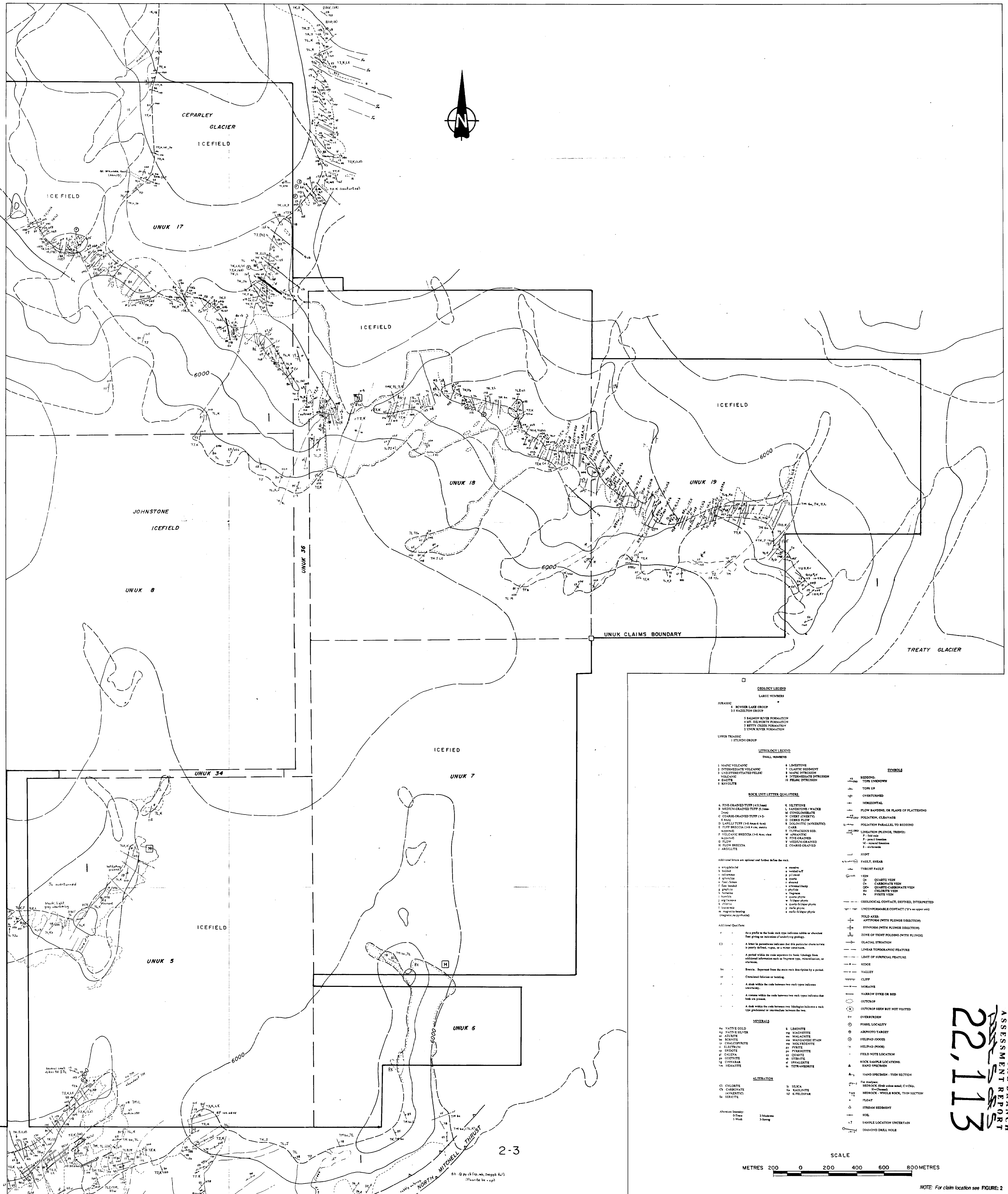
**GEOLOGICAL BRANCH**  
**ASSESSMENT REPORT**  
 22,113

COMPILED BY: J. Payne	DRAWN BY: J. Payne		UNUK RIVER PROJECT PROPERTY GEOLOGY - EAST PART -	SCALE: 1:20,000
DATA BY: J.P., J.T., G.A., L.S., R.Z., P.L. (IMDRU), J.H. (GSC)	DATE: Nov., 1991		SKEENA MINING DIVISION	PROJECT No: 134
			N.T.S. No: 1048/9W&E	

FIGURE 2 A.1.2







**GEOLOGY LEGEND**

**LARGE NUMBERS**

**JURASSIC**

- 1 BOVENSER LAKE GROUP
- 2 HAZELTON GROUP
- 3 SALMON RIVER FORMATION
- 4 M.T. SILKWOOD FORMATION
- 5 BETTY CREEK FORMATION
- 6 UNUK RIVER FORMATION

**UPPER TRIASSIC**

- 7 STEVEN GROUP

**LITHOLOGY LEGEND**

**SMALL NUMBERS**

- 1 MAGMA VOLCANIC
- 2 INTERMEDIATE VOLCANIC
- 3 UNDIFFERENTIATED FELSIC VOLCANIC
- 4 BASALT
- 5 BASALTIC
- 6 Limestones
- 7 CLASTIC SEDIMENT
- 8 MAFIC INTRUSION
- 9 INTERMEDIATE INTRUSION
- 10 FELSIC INTRUSION

**ROCK UNIT LETTER QUALIFIERS**

- A FINE GRAINED TUFF (<0.5mm)
- B MEDIUM GRAINED TUFF (0.5mm-2mm)
- C COARSE GRAINED TUFF (>2mm)
- D LAPILLI TUFF (>4mm-6mm)
- E TUFF BRECCIA (>4mm-6mm)
- F VOLCANIC BRECCIA (>4mm-6mm)
- G FLOW
- H FLOW BRECCIA
- I ARGILLITE
- K SILTSTONE
- L SANDSTONE / WACKE
- M CONGLOMERATE
- N CHERT (CHERTY)
- O SILICEOUS FLOW
- P DOLOMITIC (ANKERITIC) CLAY
- Q TUFFACIOUS SED. / ARGILLITE
- R FINE GRAINED / MEDIUM GRAINED
- S MEDIUM GRAINED
- T COARSE GRAINED

**ADDITIONAL TERMS are optional and further define the rock:**

- a argillaceous
- b bedded
- c calcareous
- d igneous
- e fine grained
- f Saw banded
- g gneissic
- h laminar
- i micaceous
- j impure
- k micaceous
- l magnesian bearing (negative as pyritic)
- m massive
- n vesiculated
- o jointed
- p quartz
- q altered
- r chlorite / talc
- s pyritic
- t pyritic / siliceous
- u quartz / siliceous
- v fine grained / coarse grained
- w fine grained
- x fine grained
- y fine grained
- z fine grained

**ADDITIONAL QUALIFIERS:**

- (-) As a prefix to the basic rock type indicates rubble or abundant float giving an indication of weathering geology.
- (\*) A star to the permit number indicates that the particular stratum is a poorly defined, thin, or a minor constituent.
- (~) A dash within the code separates the basic lithology from additional information such as fragment type, mineralization, or structure.
- (B) Breccia. Separated from the basic rock description by a period.
- (C) Crinoidal foliation or bedding.
- (D) A dash within the code between two rock types indicates uncertainty.
- (E) A dash within the code between two rock types indicates that both are present.
- (F) A dash within the code between two lithologies indicates a rock type transitional or intermediate between the two.

**MINERALS**

- 40 NATIVE GOLD
- 41 NATIVE SILVER
- 42 AZULITE
- 43 SERICITE
- 44 CHALCOPRYRITE
- 45 GALENA
- 46 COBALTITE
- 47 CONNARITE
- 48 HEDDALITE
- 49 LAMONTITE
- 50 MALACHITE
- 51 MANGANESE SULFIDE
- 52 NIOBYENITE
- 53 PYRRHOTITE
- 54 QUARTZ
- 55 STIBNITE
- 56 URANINITE
- 57 TETRANOBITE
- 58 LAMONTITE
- 59 MALACHITE
- 60 MANGANESE SULFIDE
- 61 NIOBYENITE
- 62 PYRRHOTITE
- 63 QUARTZ
- 64 STIBNITE
- 65 URANINITE
- 66 TETRANOBITE

**ALTERATION**

- 11 SILICA
- 12 KAOLINITE
- 13 FELDSPAR

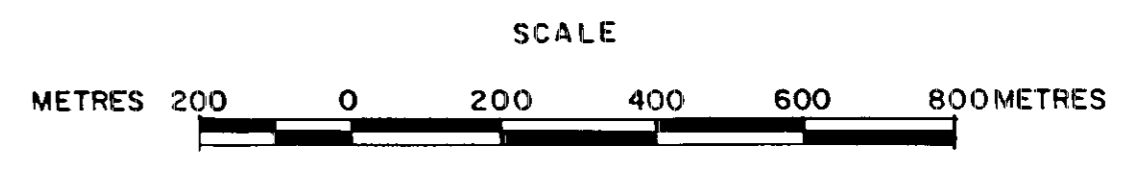
**Alteration Density:**

- 0 Trace
- 1 Weak
- 2 Moderate
- 3 Strong

**SYMBOLS**

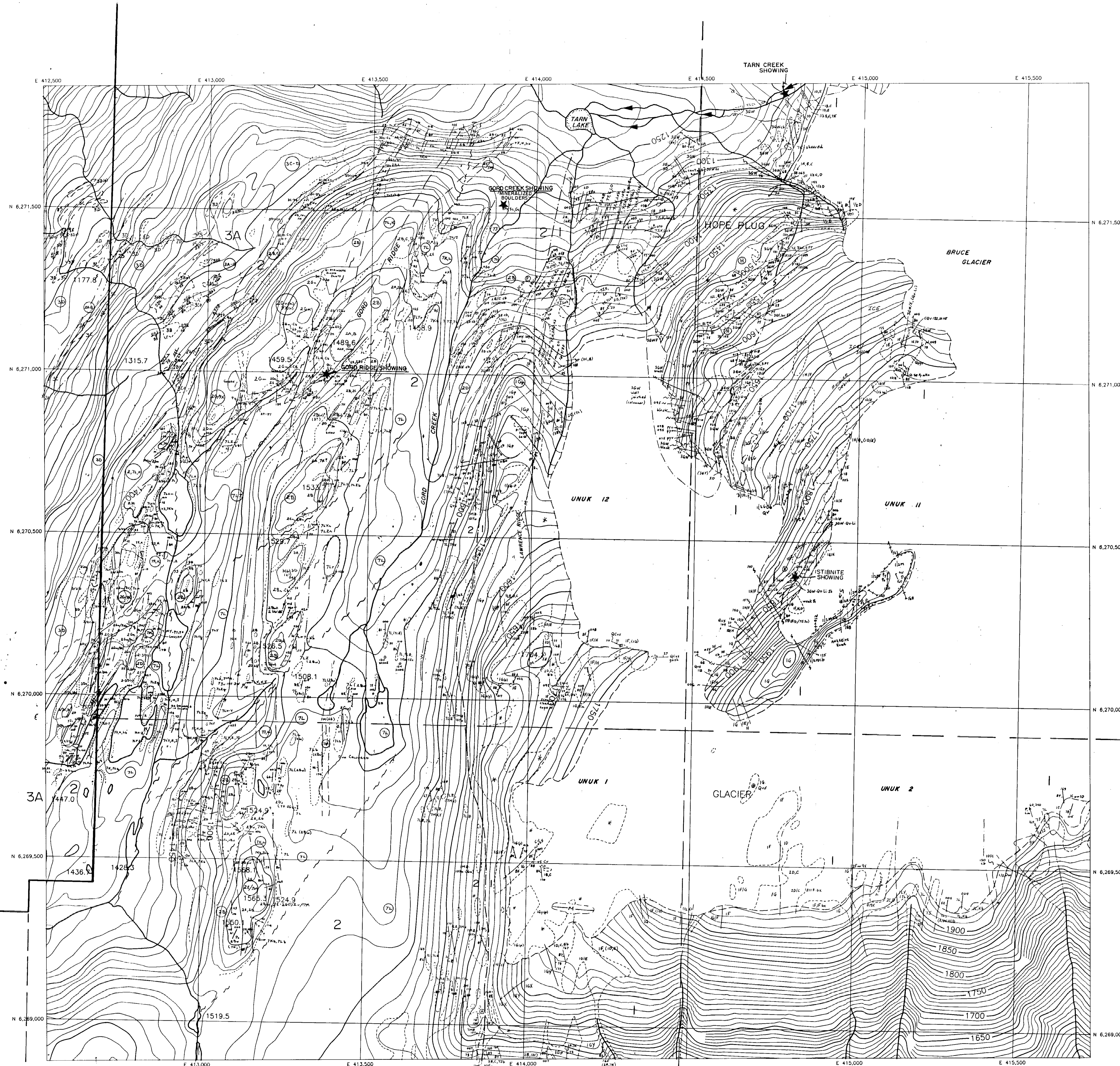
- 1 BEDDING, TOPS UNKNOWN
- 2 TOPS UP
- 3 OVERTURNED
- 4 HORIZONTAL
- 5 FLOW BANDING, OR PLANE OF FLATTENING
- 6 FOLIATION, CLEAVAGE
- 7 FOLIATION PARALLEL TO BEDDING
- 8 LINEATION (PLUNGE, TREND):
- 9 P: 30d N100E
- 10 P: 30d N100E
- 11 S: 45d N100E
- 12 S: 45d N100E
- 13 JOINT
- 14 FAULT, SHEAR
- 15 THURST FAULT
- 16 VEN
- 17 QUARTZ VEIN
- 18 CARBONATE VEIN
- 19 QUARTZ-CARBONATE VEIN
- 20 QUARTZ VEIN
- 21 PYRITE VEIN
- 22 GEOLOGICAL CONTACT, DEFINED, INTERPRETED
- 23 UNCONFORMABLE CONTACT (U' on upper side)
- 24 FOLD AXIS
- 25 ANTIFORM WITH PLUNGE (SECTION)
- 26 SYNFORM WITH PLUNGE (SECTION)
- 27 ZONE OF THIST FOLDING (WITH PLUNGE)
- 28 GLACIAL STRATION
- 29 LIMIT OF SURFICIAL FEATURE
- 30 RIDGE
- 31 VALLEY
- 32 CLIFF
- 33 MOKAINE
- 34 NARROW DYKE OR BED
- 35 OUTCROP
- 36 OUTCROP SEEN BUT NOT VISITED
- 37 OVERBURDEN
- 38 PASSAGE LOCALITY
- 39 AEROPHOTARGET
- 40 HELPAD (WOOD)
- 41 HELPAD (POOR)
- 42 FIELD NOTE LOCATION
- 43 ROCK SAMPLE LOCATION
- 44 HAND SPECIMEN
- 45 HAND SPECIMEN - THIN SECTION
- 46 For Analysis: BEDROCK (SH-OR-OR-OR), C-C-OR, (H-OR-OR)
- 47 BEDROCK - WHOLE ROCK, THIN SECTION
- 48 FLAT
- 49 STREAM SEDIMENT
- 50 SOIL
- 51 SAMPLE LOCATION UNCERTAIN
- 52 DIAMOND DRILL HOLE

GEOLOGICAL BRANCH  
 ASSESSMENT REPORT  
 22,113



NOTE: For claim location see FIGURE 2

DATA BY: J.P., J.H., G.A.	DRAWN BY: John Payne		1991 UNUK EAST GEOLOGY UNUK RIVER OPTION SKEENA MINING DIVISION, B.C. Figure 2.A.4	SCALE: 1:10,000
	DATE: Summer, 1991		PROJECT No.: 134	N.T.S. No.: 1048/9, 10



**GEOLOGY LEGEND**

JURASSIC  
 4 BOWSER LAKE GROUP  
 3.5 HAZELTON GROUP

1 SALADIN RIVER FORMATION  
 4.1.1 SILTSTONE FORMATION  
 2 BETTY CREEK FORMATION 13A - BETTY CREEK FELSITE, 3B - BETTY CREEK ANDESITE  
 1 UNUK RIVER FORMATION

UPPER TRIASSIC  
 1 STURDIN GROUP

**LITHOLOGY LEGEND**

SMALL NUMBERS

1 MAFIC VOLCANIC	4 LIMESTONE
2 INTERMEDIATE VOLCANIC	7 CLASTIC SEDIMENT
3 UNIDENTIFIED FELD VOLCANIC	8 MAJIC STRIATION
4 DIORITE	9 INTERMEDIATE INTRUSION
5 MITOLITE	10 FELSIC INTRUSION

**ROCK UNIT LETTER QUALIFIERS**

A FINE GRAINED TUFF (< 0.5mm)	K SILTSTONE
B MEDIUM GRAINED TUFF (0.5-5mm)	L SANDSTONE / WACKHE
C COARSE GRAINED TUFF (> 5-50mm)	M CONGLOMERATE
D LAPILLI TUFF (> 0.4-4mm, 4-10mm)	N CHEST CRIBBY
E TUFF BRECCIA (> 0.4-4mm, 4-10mm)	O DEBRIS FLOW
F VOLCANIC BRECCIA (> 0.4-4mm, 4-10mm)	P DOLERITE (ANGRETTIC)
G FLOW	Q TUFFACEOUS SED.
H FLOW BRECCIA	R APHANTIC
I ARGILLITE	S FINE GRAINED
	T MEDIUM GRAINED
	U COARSE GRAINED

Additional letters are optional and further define the rock.

**Additional Qualifiers:**

- As a prefix to the basic rock type indicates noble or abundant fluorite giving an indication of underlying geology.
- A letter in parentheses indicates that this particular characteristic is geologically typical of a minor constituent.
- A prefix within the code against the basic lithology from additional information such as fragment type, mineralization, or alteration.
- Spaced. Separated from the main rock description by a period.
- Oblique. Oblique to bedding.
- A dash within the code between two rock types indicates uncertainty.
- A comma within the code between two rock types indicates that both are present.
- A dash within the code between two lithologies indicates a rock type transitional or intermediate between the two.

**MINERALS**

AV NATIVE GOLD	EM EMERALD
AG NATIVE SILVER	MG MAGNETITE
AD AZURITE	ML MALACHITE
BO BORNITE	MS MANGANESE STAIN
CP CHALCOPYRITE	PE PEARLITE
EL ELECTRUM	PF PYRITE
EP EPIDOTE	PH PHENACITE
GA GALENA	QU QUARTZ
GR GRANITE	SP SPHALERITE
HA HAEMATITE	TR TRIPHYLITE

**ALTERATION**

CL CHLORITE	SI SILICA
CA CALCITE	KA KAOLINITE
SL SILICATE	KF K-FELDSPAR

Alteration Intensity:  
 0 Trace  
 1 Weak  
 2 Moderate  
 3 Strong

**SYMBOLS**

BEDDING:  
 TOP UNKNOWN  
 TOP UP  
 OVERTURNED  
 HORIZONTAL  
 FLOW BANDING OR PLAINS OF FLATTENING  
 FOLIATION, CLEAVAGE  
 FOLIATION PARALLEL TO BEDDING  
 LINEATION (FOLIOLE, TROND)  
 F - fold axis  
 F - fold axis  
 F - normal fault  
 F - strike-slip

FAULT, SIBER  
 TRUST FAULT  
 TRUST  
 QUARTZ VEIN  
 CARBONATE VEIN  
 QUARTZ-CARBONATE VEIN  
 CHLORITE VEIN  
 PYRITE VEIN  
 UNCONFORMABLE CONTACT, DERIVED, INTERPRETED  
 UNCONFORMABLE CONTACT ('U' on upper side)  
 FOLD AXIS:  
 ANTIFORM (WITH FOLIOLE DIRECTION)  
 SYNFORM (WITH FOLIOLE DIRECTION)  
 ZONE OF TIGHT FOLDING (WITH FOLIOLE)  
 GLACIAL STRATIFICATION  
 LINEAR TOPOGRAPHIC FEATURE  
 LIMIT OF SURFICIAL FEATURE  
 RIDGE  
 VALLEY  
 CLIFF  
 MORaine  
 HARBOR DYKE OR BED  
 OUTCROP  
 OUTCROP SEEN BUT NOT VISITED  
 OY OVERBURDEN  
 POSEIL LOCALITY  
 AIRPHOTO TARGET  
 HELIPAD (WOOD)  
 HELIPAD (POOR)  
 FIELD NOTE LOCATION  
 ROCK SAMPLE LOCATIONS:  
 HAND SPECIMEN  
 HAND SPECIMEN - THIN SECTION  
 BEDROCK (100m under name, C = Chq, H = Chd)  
 BEDROCK - WHOLE ROCK, THIN SECTION  
 PLANT  
 STREAM SEDIMENT  
 SOIL  
 SAMPLE LOCATION UNCERTAIN  
 DIAMOND DRILL HOLE

**GEOLOGICAL BRANCH ASSESSMENT REPORT**

**22,113**

UNUK RIVER  
 1991  
 UNUK 12 GEOLOGY

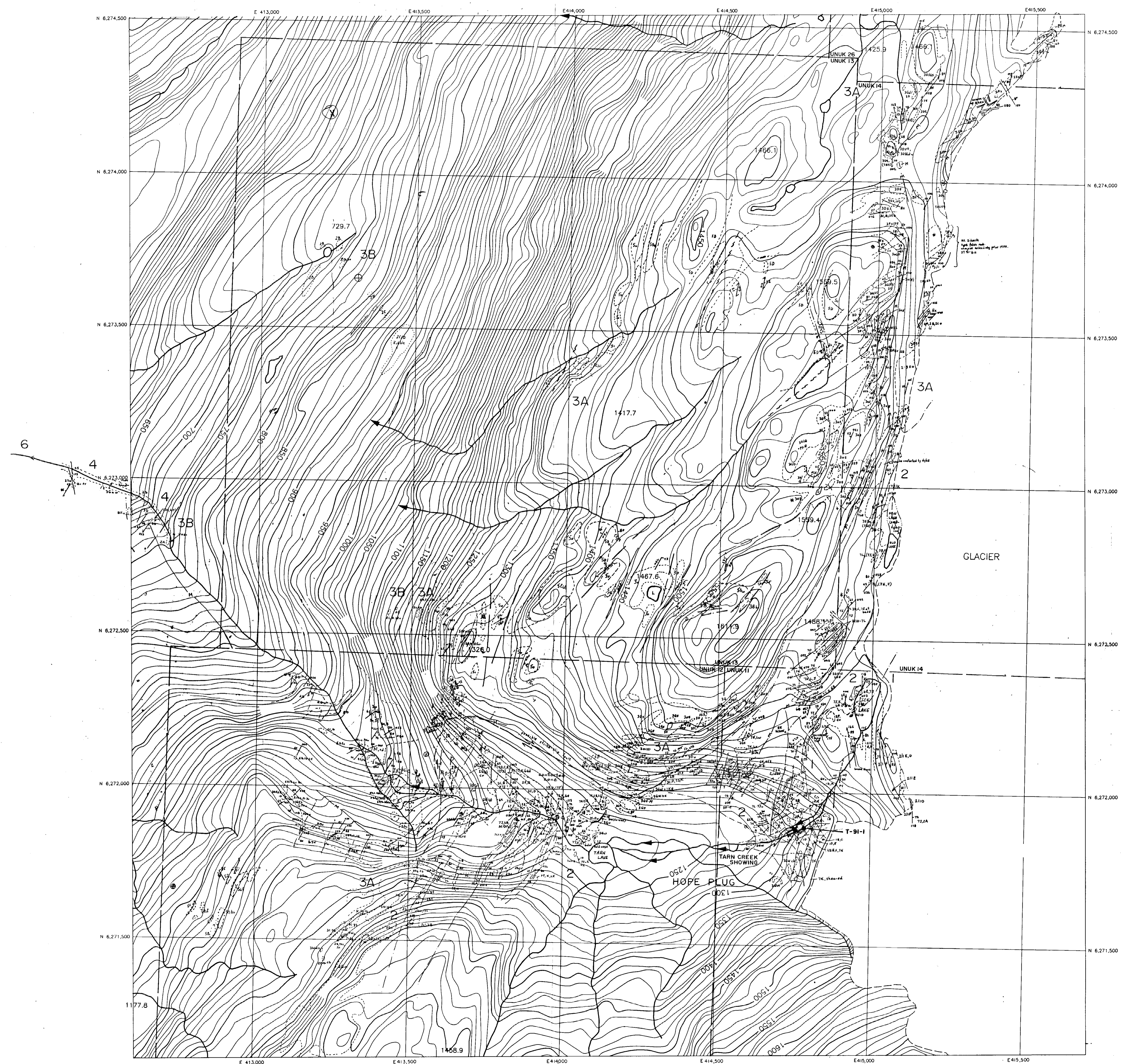
SCALE: 1:5000  
 PROJECT No.: 134  
 N.T.S. No.: 1048/9W

Figure 2A5

NOTE: For claim location see FIGURE 2

DATA BY: J.P., G.A., R.Z., L.S.	DRAWN BY: J.P., G.A., R.Z.
	DATE: July-August, 1991





**UNUK RIVER PROJECT GEOLOGY LEGEND**

**LARGE NUMBERS**

**JURASSIC**

1 BOWSER LAKE GROUP  
1.1 HAZELTON GROUP

**UPPER TRIASSIC**

1 STUWING GROUP

**LITHOLOGY LEGEND**

**SMALL NUMBERS**

1 MAFCIC VOLCANIC  
2 INTERMEDIATE VOLCANIC  
3 UNDIFFERENTIATED FELSIC VOLCANIC  
4 DACITE  
5 BIVOLCANIC

6 LIMESTONE  
7 CLASTIC SEDIMENT  
8 MAFCIC INTRUSION  
9 INTERMEDIATE INTRUSION  
10 FELSIC INTRUSION

**ROCK UNIT LETTER QUALIFIERS**

A FINE-GRAINED TUFF (<0.5mm)  
B MEDIUM-GRAINED TUFF (0.5mm-1mm)  
C COARSE-GRAINED TUFF (>1-3mm)  
D LAPILLI TUFF (>4.75mm-6mm)  
E TUFF BRECCIA (>6.4mm; coarse)  
F VOLCANIC BRECCIA (>6.4mm; fine)  
G FLOW  
H FLOW BRECCIA  
I ARGILLITE

K SILTSTONE  
L SANDSTONE / WACKE  
M CONGLOMERATE  
N CHERT (CHERT)  
O SANDS / PLAYS  
P LAPILLI  
Q DOLOMITIC (ANKARITIC)  
R CARBONATE  
S TUFFACEOUS SED.  
T APHALTIC  
U FINE-GRAINED  
V MEDIUM-GRAINED  
W COARSE-GRAINED

**SYMBOLS**

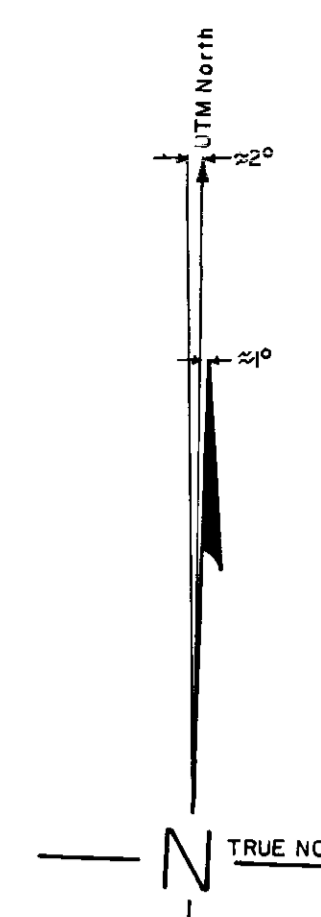
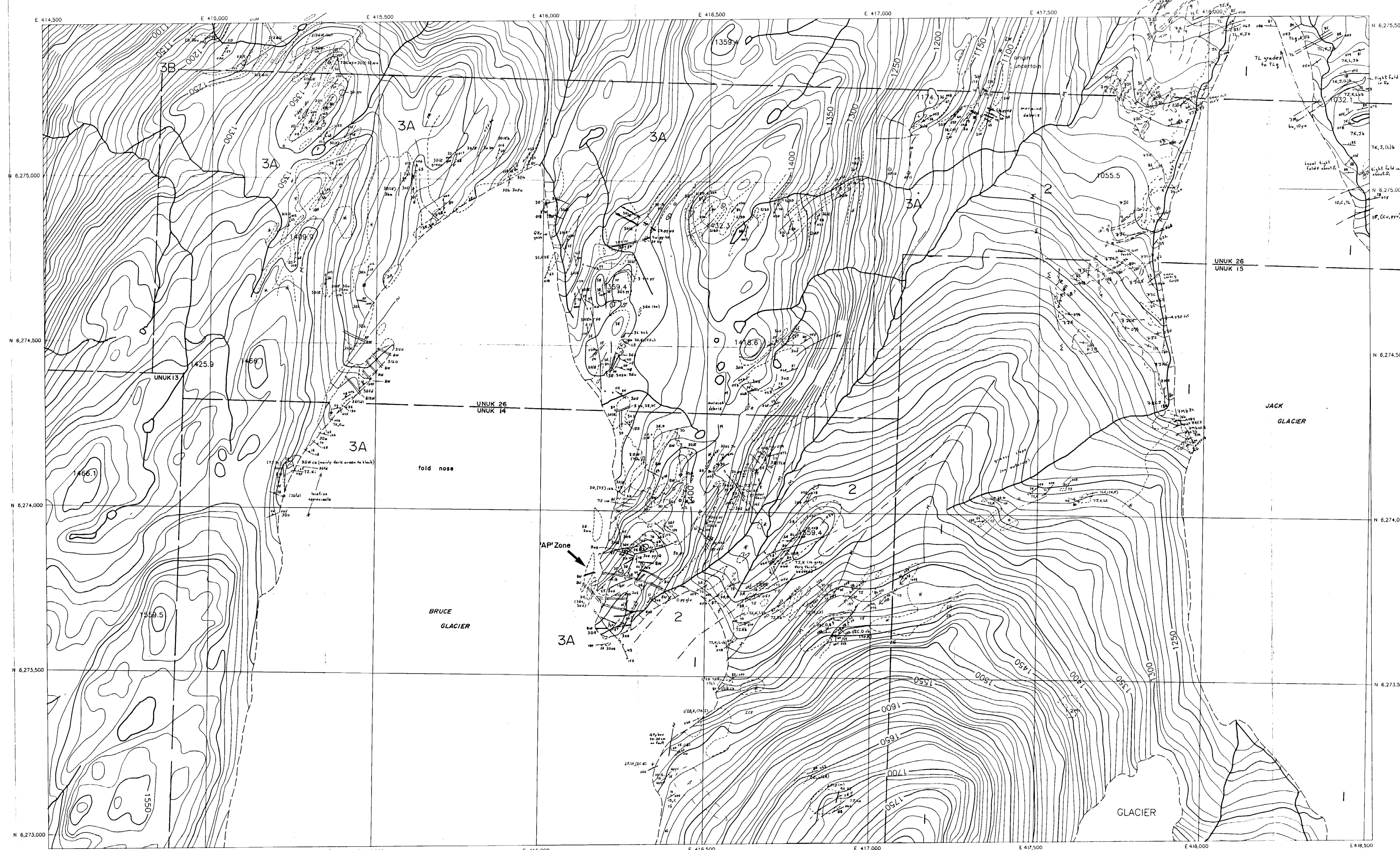
— BEDDING  
— TOPS UNKNOWN  
— HORIZONTAL  
— FLOW BANDING, OR PLANE OF FLATTENING  
— FOLIATION, CLEAVAGE  
— FOLIATION PARALLEL TO BEDDING  
— LIMBATION (PLUNGE, TREND):  
P - fold axis  
P - trend direction  
M - trend direction  
Z - strike-slip

— JOINT  
— FAULT, SHEAR  
— THROUST FAULT  
— VEIN  
— QUARTZ VEIN  
— CARBONATE VEIN  
— QUARTZ-CARBONATE VEIN  
— CHLORITE VEIN  
— PYRITE VEIN

— GEOLOGICAL CONTACT, DEFINED, INTERPRETED  
— UNCONFORMABLE CONTACT (U's on upper side)  
— FOLD AXIS  
— ANTIFORM (WITH PLUNGE DIRECTION)  
— SYNFORM (WITH PLUNGE DIRECTION)  
— ZONE OF TIGHT FOLDING (WITH PLUNGE)  
— GLACIAL STRIATION  
— LINEAR TOPOGRAPHIC FEATURE  
— LIMIT OF SURFICIAL FEATURE  
— RIDGE  
— VALLEY  
— CLIFF  
— MORAIN  
— NARROW DYKE OR BED  
— OUTCROP  
— OUTCROP SEEN BUT NOT VISITED  
— OVERSHOULDER  
— ROSSIE LOCALITY  
— AIRPHOTO TARGET  
— HELIPAD (GOOD)  
— HELIPAD (POOR)  
— FIELD NOTE LOCATION  
— ROCK SAMPLE LOCATION:  
— HAND SPECIMEN - THIN SECTION  
— For Analysis:  
— BEDROCK (Grab unless noted, C=Chip, H=Chert)  
— BEDROCK - WHOLE ROCK, THIN SECT  
— FLOAT  
— STREAM SEDIMENT  
— SOIL  
— SAMPLE LOCATION UNCERTAIN  
— DIAMOND DRILL HOLE

**GEOLOGICAL BRANCH ASSESSMENT REPORT**

**22,113**



- SYMBOLS**
- BEDDING
  - TOP UNKNOWN
  - TOPS UP
  - OVERTURNED
  - HORIZONTAL
  - FLOW BANDING, OR PLANE OF FLATTENING
  - FOLIATION, CLAVAGE
  - FOLIATION PARALLEL TO BEDDING
  - LINEATION (PLUNGE, TREND):
    - P: fold axis
    - M: mineral lineation
    - S: slickenside
  - JOINT
  - FAULT, SINK
  - THRUST FAULT
  - VEIN
    - Q: QUARTZ VEIN
    - Ca: CARBONATE VEIN
    - CC: QUARTZ-CARBONATE VEIN
    - Ch: CHLORITE VEIN
    - P: PYRITE VEIN
  - BIOLOGICAL CONTACT: DEFINED, INTERFARTED
  - UNCONFORMABLE CONTACT (U) (see legend 410)
  - FOLD AXIS:
    - AP: ANTIFORM (WITH PLUNGE DIRECTION)
    - SP: SYNFORM (WITH PLUNGE DIRECTION)
    - SD: ZONE OF TIGHT FOLDING (WITH PLUNGE)
  - GLACIAL STRATION
  - LINEAR TOPOGRAPHIC FEATURE
  - LIMIT OF SURFICIAL FEATURE
  - RIDGE
  - VALLEY
  - CLIFF
  - MORAINE
  - HARBOR DYKE OR BED
  - OUTCROP
  - OUTCROP SEEN BUT NOT VISITED
  - OVERBURDEN
  - POHLE LOCALITY
  - AIRPHOTO TARGET
  - HELIPAD (GOOD)
  - HELIPAD (POOR)
  - FIELD NOTE LOCATION
  - ROCK SAMPLE LOCATIONS:
    - ▲: HAND SPECIMEN - THIN SECTION
    - ▲: For Analysis:
      - BE: BEDROCK - OBS (with name, C=Ch, H=Cham)
      - BE: BEDROCK - WHOLE ROCK, THIN SECTION
      - : FLOAT
      - △: STRAEM SEDIMENT
      - : SOIL
      - : SAMPLE LOCATION UNCERTAIN
      - ◇: DIAMOND DRILL HOLE

- UNUK RIVER PROJECT GEOLOGY LEGEND**
- LARGE NUMBERS**
- JURASSIC
- 1 SALMON RIVER FORMATION
  - 2 BETTY CREEK FORMATION
  - 3A BETTY CREEK PLATTE
  - 3B BETTY CREEK ANDSITE
  - 4 UNUK RIVER FORMATION
- UPPER TRIASSIC**
- 1 LUTHERN GROUP
- LITHOLOGY LEGEND**
- SMALL NUMBERS**
- 1 MAFIC VOLCANIC
  - 2 INTERMEDIATE VOLCANIC
  - 3 UNDIFFERENTIATED FELIC
  - 4 DACTIC
  - 5 RHYOLITE
  - 6 LIMESTONE
  - 7 CLASTIC SEDIMENT
  - 8 MAFTIC INTRUSION
  - 9 INTERMEDIATE INTRUSION
  - 10 FELIC INTRUSION
- ROCK UNIT LETTER QUALIFIERS**
- A: FINE-GRAINED TUFF (< 0.5m)
  - B: MEDIUM-GRAINED TUFF (0.5m-3m)
  - C: COARSE-GRAINED TUFF (> 3m)
  - D: LAPILLI TUFF (> 6mm-4cm)
  - E: TUFF BRECCIA (> 6mm, clay agglutinated)
  - F: VOLCANIC BRECCIA (> 6mm, clay agglutinated)
  - G: LAPILLI
  - H: FLOW BRECCIA
  - I: AEGILLITE
  - K: SILTSTONE
  - L: SANDSTONE / WACKLE
  - M: CONGLOMERATE
  - N: CHEAT (CHERTS)
  - O: DEBRIS FLOW
  - P: DOLOMITIC (ANKERITIC) CARB
  - Q: TUFFACEOUS SED.
  - R: SPHAGNITIC
  - S: FINE-GRAINED
  - T: MEDIUM-GRAINED
  - U: COARSE-GRAINED
  - V: ARGILLITE
  - W: MUDSTONE
  - X: SANDSTONE
  - Y: MUDSTONE
  - Z: SANDSTONE
- Additional Qualifiers:**
- 1: As a result of the basic rock type, massive, blocky or columnar, or giving an impression of weathering pinnacles.
  - 2: A star in parentheses indicates that this particular characteristic is poorly defined, vague, or a minor condition.
  - 3: A star within the code appears the basic lithology from additional information such as fragment type, mineralization, or alteration.
  - 4: Breccia. Separated from the main rock description by a period.
  - 5: Chemically altered or bedded.
  - 6: A dash within the code between two rock types indicates an uncertainty.
  - 7: A circle within the code between two rock types indicates that both are present.
  - 8: A dash within the code between two lithologies indicates a rock type transitional or intermediate between the two.
- MINERALS**
- Ag: NATIVE SILVER
  - As: ARSENITE
  - B: BISMUTH
  - C: CHALCOPYRITE
  - D: DIAMOND
  - E: EPIDOT
  - F: FLUORITE
  - G: GARNET
  - H: HALITE
  - I: ILLITE
  - J: JAROSITE
  - K: KALINITE
  - L: LEAD
  - M: MALACHITE
  - N: NATROLITE
  - O: OSMIUM
  - P: PYRITE
  - Q: QUARTZ
  - R: RHYOLITE
  - S: STIBNITE
  - T: TETRACEDRITE
  - U: URANITE
  - V: VANADINE
  - W: WOLFRAMITE
  - X: XANTOPHANE
  - Y: YERBYNITE
  - Z: ZINC
- ALTERATION**
- C: CHLORITE
  - Ca: CARBONATE
  - Ch: CHLORITE
  - S: SERICITE
  - Si: SILICA
  - Ka: KALINITE
  - M: MALACHITE
- Altitude (meters):**
- 0-500
  - 500-1000
  - 1000-1500
  - 1500-2000
  - 2000-2500
  - 2500-3000
  - 3000-3500
  - 3500-4000
  - 4000-4500
  - 4500-5000
  - 5000+

**GEOLOGICAL BRANCH ASSESSMENT REPORT**

**22,113**

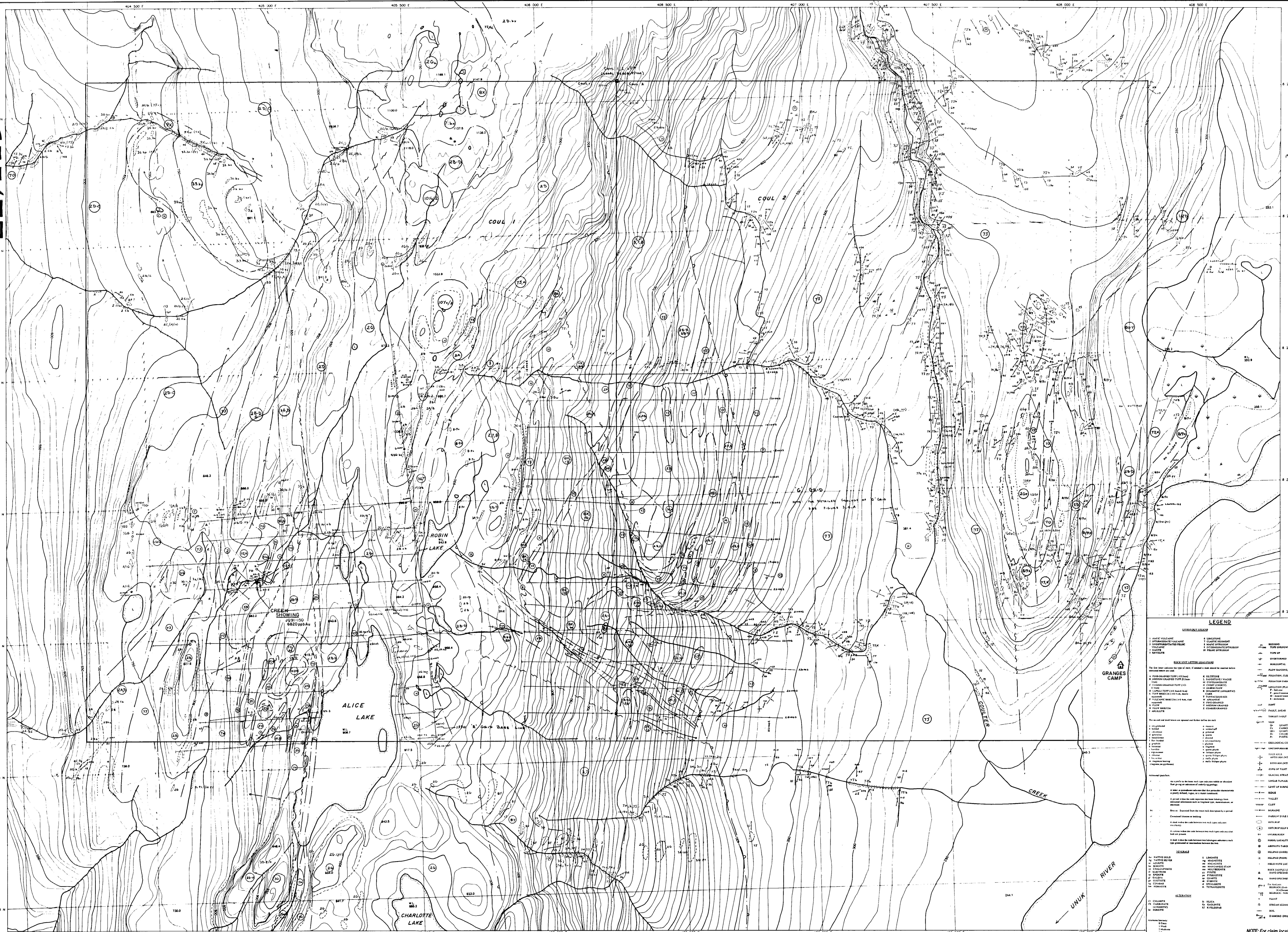
NOTE: For claim location see FIGURE 2

UNUK RIVER  
GEOLOGY  
1991

SCALE: 1:5000  
PROJECT No.: 134  
N.T.S. No.: 104B/9W  
Figure 2A.7

DATA BY: J.P., J.T.	DRAWN BY: John Payne		SCALE: 1:5000
	DATE: Summer, 1991		PROJECT No.: 134
	SKEENA M.D.		N.T.S. No.: 104B/9W





**LEGEND**

**SYMBOLS**

- 1. CLAYE VULCANIC
- 2. LITHOMORPHIC VULCANIC
- 3. METAMORPHIC VULCANIC
- 4. CLAYE
- 5. METAMORPHIC
- 6. METAMORPHIC
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**ROCK SAMPLES**

- 1. QUARTZITE
- 2. GNEISS
- 3. SLATE
- 4. MARBLE
- 5. SCHIST
- 6. AMPHIBOLITE
- 7. GABBRO
- 8. DIORITE
- 9. GRANITE
- 10. METAGABBRO
- 11. METADIORITE
- 12. METAGRANITE
- 13. METASCHIST
- 14. METASLATE
- 15. METAGNEISS
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**STRUCTURAL FEATURES**

- 1. FOLDED
- 2. UNFOLDED
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- 100. UNFOLDED

**Other symbols for faults, folds, and geological contacts.**

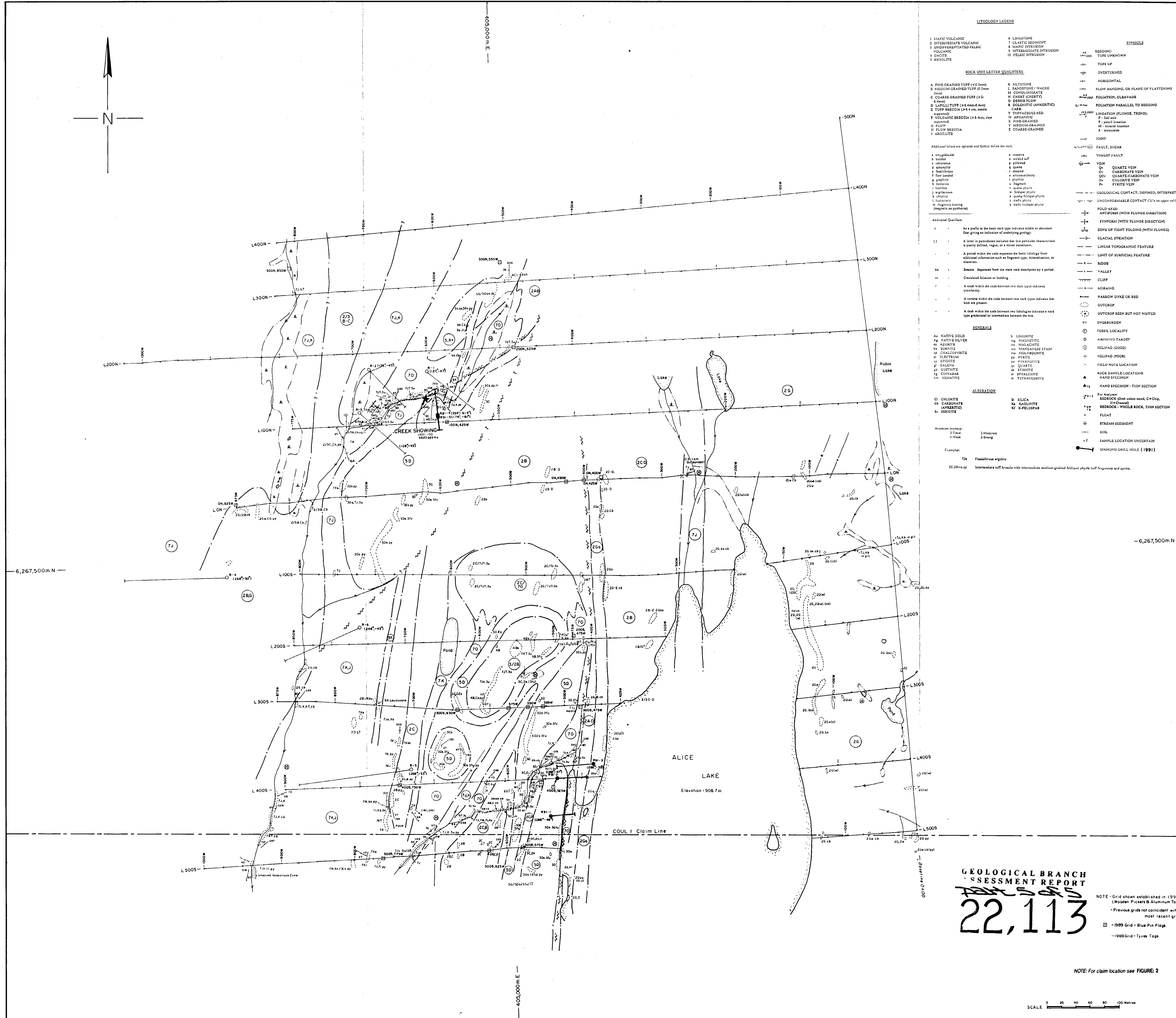
Contour Interval 10m  
SCALE 1:50,000

DATA BY: G.A., J.P., L.S., J.T., R.B. (MDRU/RZ) DRAWN BY: G. ALLEN  
DATE: November, 1991  
SKEENA MINING DIVISION

**GRANGES INC.**  
VANCOUVER, B.C.

UNUK RIVER PROJECT  
COUL 1 and 2 CLAIMS  
GEOLOGY

SCALE 1:50,000  
PROJECT No. 134  
N.T.S. No. 104B/10E  
FIGURE 3.0



**LITHOLOGY LEGEND**

1 MAGIC VOLCANIC	6 LIMESTONE	7 CLASTIC SEDIMENT	8 MAGIC INTRUSION	9 INTERMEDIATE INTRUSION	10 FELSIC INTRUSION
2 INTERMEDIATE VOLCANIC	7 CLASTIC SEDIMENT	8 MAGIC INTRUSION	9 INTERMEDIATE INTRUSION	10 FELSIC INTRUSION	
3 UNDIFFERENTIATED FELSIC VOLCANIC					
4 DACITE					
5 RHYOLITE					

**ROCK UNIT LETTER QUALIFIERS**

A FINE-GRAINED TUFF (<0.5mm)	K SILTSTONE
B MEDIUM-GRAINED TUFF (0.5mm-2mm)	L SANDSTONE / WACKLE
C COARSE-GRAINED TUFF (>2-6mm)	M CONGLOMERATE
D LAPILLI TUFF (>4-4mm-4mm)	N CHERT (CHERTY)
E TUFF BRECCIA (>4-4mm, matrix <2mm)	O DEBRIS FLOW
F VOLCANIC BRECCIA (>4-4mm, matrix <2mm)	P DOLOMITIC (ANKERITIC) CARB.
G FLOW BRECCIA (>4-4mm, matrix <2mm)	Q TUFFACEOUS SED.
H FLOW BRECCIA	R ARGILLITE
I ARGILLITE	

**SYMBOLS**

--- BEDDING	--- TOPS UNKNOWN
--- TOPS UP	--- HORIZONTAL
--- OVERTURNED	--- FLOW BANDING, OR PLANE OF FLATTENING
--- FOLIATION PARALLEL TO BEDDING	--- FOLIATION PARALLEL TO BEDDING
--- LINEATION (PLUNGE, TREND):	
P - Fold axis	
Q - Fold axis	
M - Mineral lineation	
S - strike-slip	
--- JOINT	
--- FAULT, SHEAR	
--- THRUST FAULT	
--- VEIN	
--- QUARTZ VEIN	
--- CARBONATE VEIN	
--- QUARTZ-CARBONATE VEIN	
--- CILICORITE VEIN	
--- PYRITE VEIN	
--- GEOLOGICAL CONTACT: DEFINED, INTERPRETED	
--- UNCONFORMABLE CONTACT ("U" on upper unit)	
--- FOLD AXIS	
--- ANTIPLONG (WITH PLUNGE DIRECTION)	
--- SYNFORM (WITH PLUNGE DIRECTION)	
--- ZONE OF TIGHT FOLDING (WITH PLUNGE)	
--- GLACIAL STRIATION	
--- LINEAR TOPOGRAPHIC FEATURE	
--- LIMIT OF SUFICIAL FEATURE	
--- RIDGE	
--- VALLEY	
--- CLIFF	
--- MORAINE	
--- NARROW DYKE OR BED	
--- OUTCROP	
--- OUTCROP SEEN BUT NOT VISITED	
--- OVERBURDEN	
--- FOSSIL LOCALITY	
--- ARKHOLO TARGET	
--- HELIPAD (GOOD)	
--- HELIPAD (POOR)	
--- FIELD NOTE LOCATION	
--- ROCK SAMPLE LOCATIONS	
--- HAND SPECIMEN	
--- HAND SPECIMEN - THIN SECTION	
--- BEDROCK (Grab unless noted, C-Chip, H-Claw)	
--- BEDROCK - WHOLE ROCK, THIN SECTION	
--- FLOAT	
--- STREAM SEDIMENT	
--- SOIL	
--- SAMPLE LOCATION UNCERTAIN	
--- DIAMOND DRILL HOLE (1991)	

**MINERALS**

AG NATIVE GOLD	SI SILICITE
AS NATIVE SILVER	SP SPHALERITE
AZ AZURITE	ST STIBNITE
BURNITE	TR TRAVERTINE
CHALCOPYRITE	UR URANITE
ELECTRUM	VA VANADINITE
EPIDOTE	VE VERMICULITE
SALENA	VI VIBURNITE
COBALTITE	VO VIOLETTITE
CINNABAR	VT VERTICITE
HEMATITE	WZ WERNECKITE
LI LINDSAYITE	
MA MALACHITE	
MG MANGANESE STANNITE	
MO MOLYBDENITE	
PK PYRITE	
FR FRANKLINITE	
QU QUARTZ	
ST STIBNITE	
SP SPHALERITE	
TE TENANTITE	

**ALTERATION**

CI CHLORITE	SI SILICA
CA CARBONATE (ANKERITIC)	KA KAOLINITE
SE SERICITE	MP M-FELDSPAR

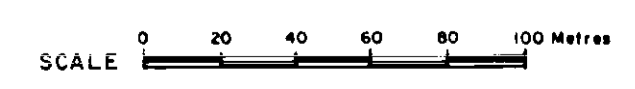
**Alteration Intensity:**  
 0 Trace  
 1 Weak  
 2 Moderate  
 3 Strong

**Examples:**  
 7J Fossiliferous argillite  
 2B-2C Intermediate tuff breccia with intermediate medium-grained feldspar phytic tuff fragments and pyrite.

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**  
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NOTE - Grid shown established in 1990 (Wooden Pickets & Aluminum Tags)  
 - Previous grids not coincident with most recent grid  
 □ - 1989 Grid - Blue Pin Flags  
 ○ - 1988 Grid - Tyvek Tags

NOTE: For claim location see FIGURE 2

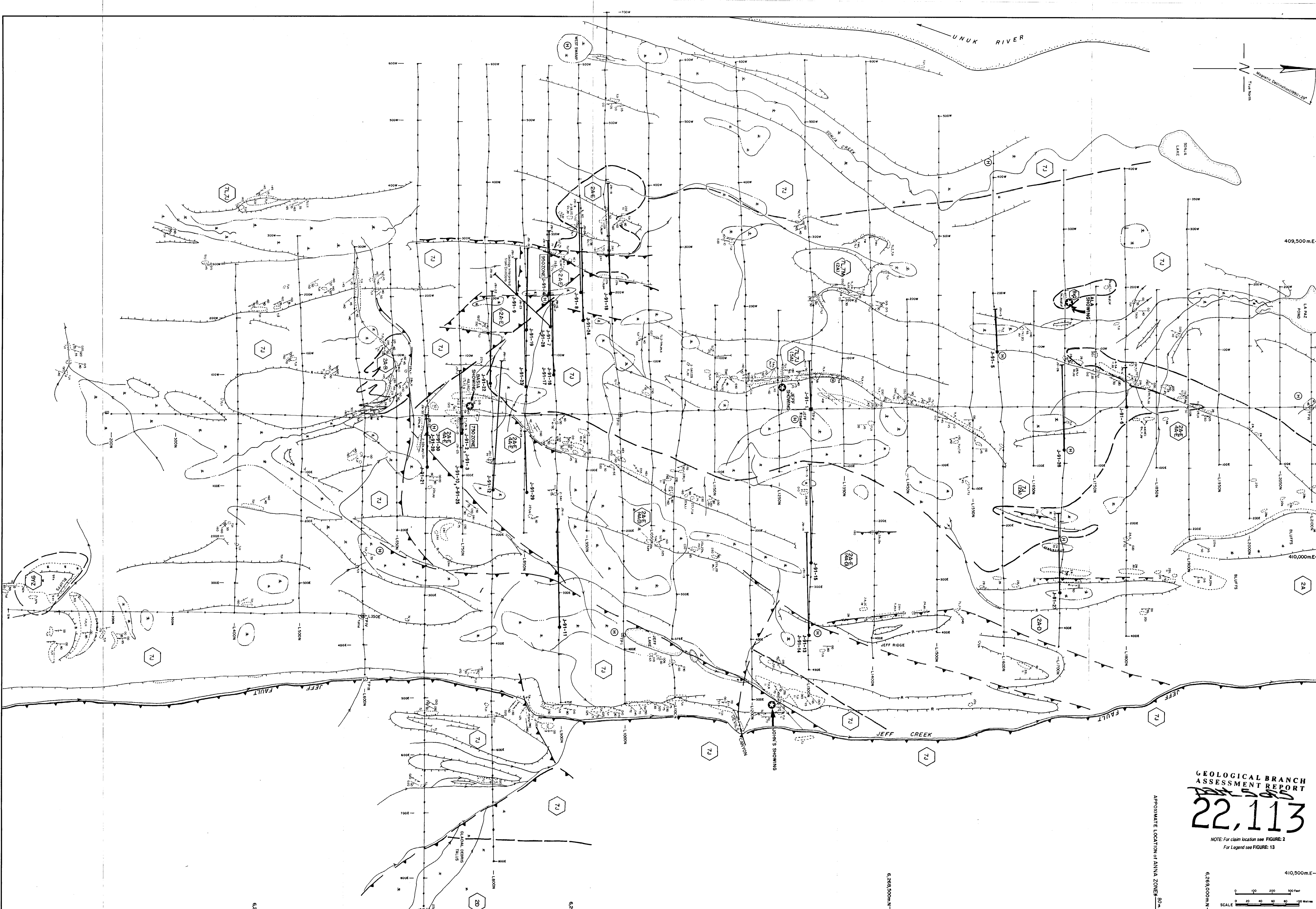


DATA BY: G. Allen, J. Payne	DRAWN BY: G.A., J.P., H.H.
	DATE: August, 1991

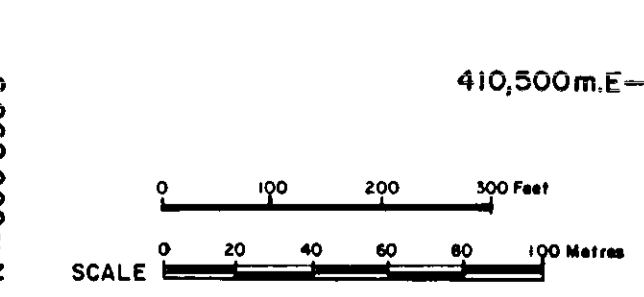


UNUK RIVER PROJECT COUL I CLAIM SOUTHWEST PART OF 'R' GRID GEOLOGY and DRILL HOLE LOCATIONS Figure 3.3A	SCALE: 1:2,000 PROJECT No.: 134 N.T.S. No.: 104B/10E
---	--





GEOLOGICAL BRANCH  
 ASSESSMENT REPORT  
**22,113**  
 NOTE: For claim location see FIGURE 2  
 For Legend see FIGURE 13



DATA BY: J.T., J.P., G.A., L.S., R.Z., J.P.	DRAWN BY: J.T., H.H.		UNUK RIVER PROJECT	SCALE: 1:2,000
DATE: JUNE-OCTOBER, 1991	SKEENA MINING DIVISION		COUL'S CLAIM	PROJECT No.: 134
			JEFF GRID GEOLOGY and DRILL HOLE LOCATIONS Figure 4.3.A	N.T.S. No.: 104 B/9W

FIGURE 14