

SUMMARY OF EXPLORATION ACTIVITIES

BRITANNIA OPTION

P.N. 313

FURRY CREEK AREA

NTS 92 G10W/11E

OWNER: FLECK RESOURCES LTD.

OPERATOR: MINNOVA INCORPORATED

FILMED

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,756

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INTRODUCTION

This report summarizes exploration activities in the Furry Creek area of the Britannia property during the 1987 field season.

The Furry Creek valley and the Clipper Creek valley contain the strike continuation of the Britannia Mine sequence which hosts the former Britannia orebodies. Some 55 million tons of copper ore was mined from the Britannia Mine, including a massive portion of 2.1 million tons grading 1.5% Cu, 4.4% Zn, 0.3 oz/T Ag and 0.28 oz/T Au.

In 1986, a drill program at the Watershed prospect intersected two zinc-rich exhalative horizons occurring in pyroclastic rocks stratigraphically above a composite dacite flow/dome. Quartz-chalcopyrite stringer mineralization and attendant chlorite/sericite alteration appeared to intensify toward the east. (Burge, 1986)

In 1987, mapping and litho geochemistry traced the mineralized package to a cliff face some 400 metres further east. There spectacular chalcopyrite-pyrite and sphalerite stringers were discovered within the dacite flow/dome. Mapping 400 metres further east located cherty ash beds with 3-4% disseminated chalcopyrite immediately above a silica-flooded andesite. This andesitic unit is remarkably similar to the "silica-healed breccia" as described by Hodgson (1969) as the host for the No. 8 orebody, the massive portion at the Britannia Mine.

These exciting targets were slated to be drilled in the fall of 1987, but the inability to obtain a machine capable of drilling in the rugged, precipitous terrain forced the program to be delayed until 1988.

LOCATION, ACCESS, PHYSIOGRAPHY

The Furry Creek project area is located 40 kilometres north of Vancouver on Highway 99 (Figure 1). Access to the western extent of Minnova Inc.'s Furry Creek grid is by an eight kilometre rough four-wheel drive road which leaves Highway 99 five kilometres south of Britannia Beach. The Furry - Clipper divide area can also be accessed by 40 km of good condition road north through the Greater Vancouver Watershed, leaving from the Seymour Demonstration Forest.

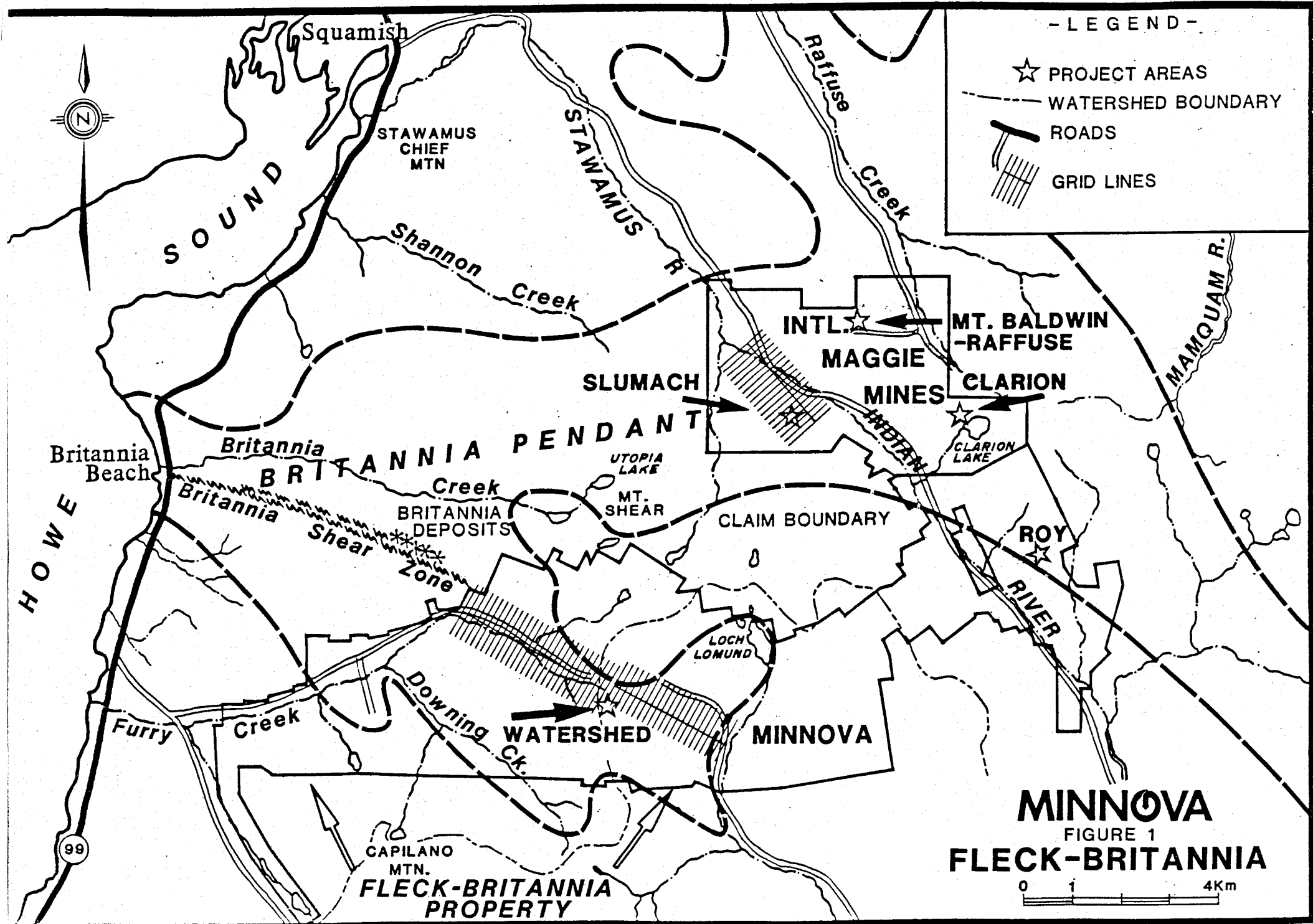
The Furry - Clipper divide area represents the saddle between Furry Creek draining west toward Howe Sound and Clipper Creek, which joins Seymour River in the east. The Clipper Creek valley is a rugged, steep-walled, east-west trending valley with original growth douglas fir.

PROPERTY STATUS

The Furry - Clipper divide area is in the western portion of the Britannia property, which consists of 310 crown granted claims, 6 reverted crown granted claims, and 5 staked claims totalling 8,175 hectares. Anaconda Canada purchased the property from Britannia Mining and Smelting Co. in 1962, and Minnova Incorporated (formerly Corporation Falconbridge Copper) optioned the property from Anaconda in June 1984. Fleck Resources Ltd. acquired Anaconda's interest in late 1985.

FIELD METHODS

Detailed 1:1000 scale contour maps were used as base maps combined with slope-corrected gridlines for control purposes.



- LEGEND -

- ★ PROJECT AREAS
- - - WATERSHED BOUNDARY
- ▬ ROADS
- ▨ GRID LINES

MINNOVA
 FIGURE 1
FLECK-BRITANNIA

0 1 4Km

GEOLOGY

Regional Geology

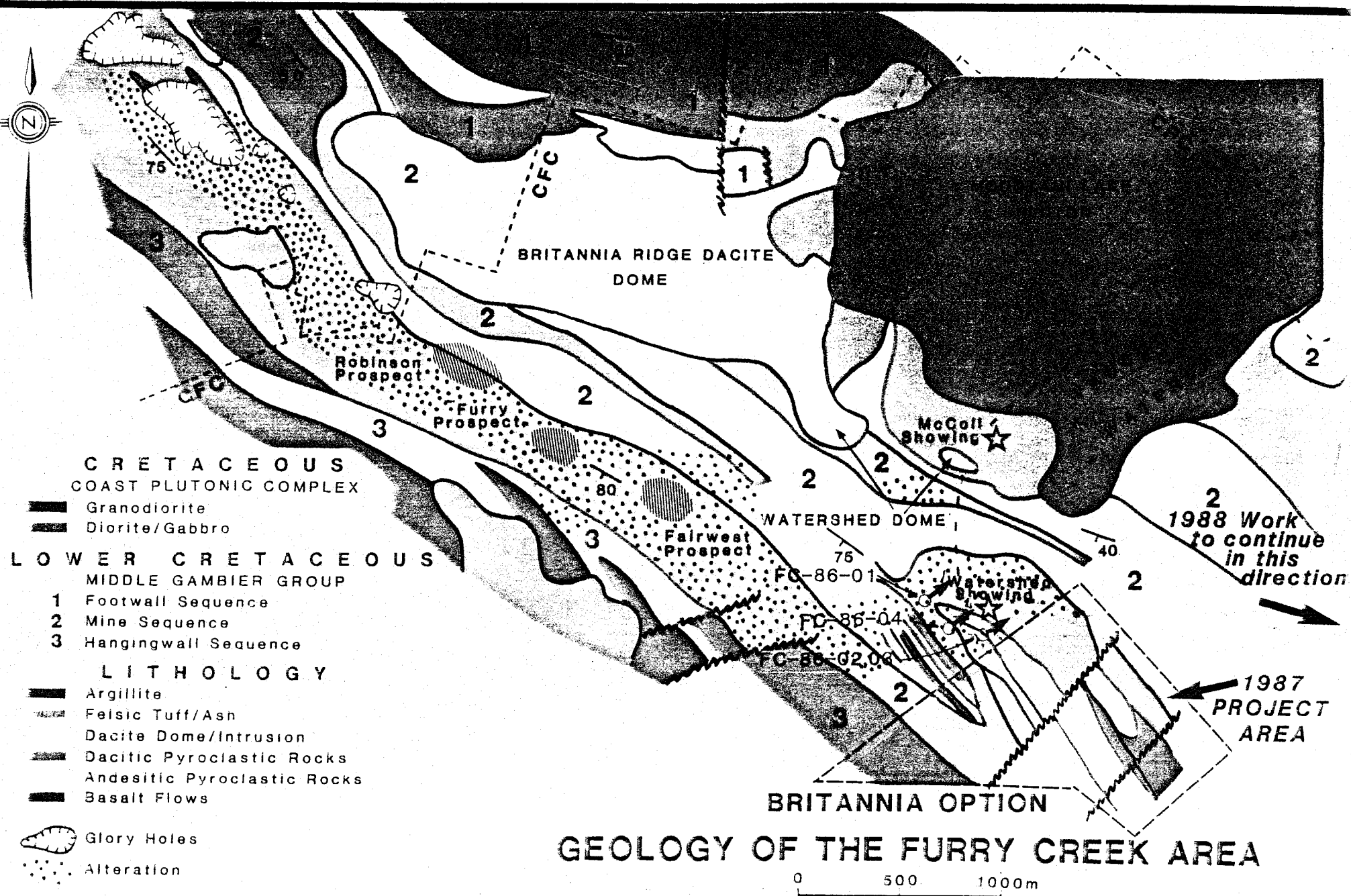
The Britannia property is underlain by lower Cretaceous meta-volcanic/sedimentary rocks of the Britannia pendant, one of the many volcano-sedimentary "belts" within the Coast Plutonic Complex (Figure 2).

Geology of the Furry Creek Area

The Furry Creek valley contains a complicated interbedded succession of andesitic - dacitic pyroclastic rocks which comprise the "Mine Sequence," which hosts the former Britannia VMS deposits to the west. Pyroclastic rocks of the Mine Sequence conformably overlie the Britannia Ridge dacite dome-intrusion and generally strike NW-SE. Units dip 30° south on the north valley wall and increase to 70° to 80° south at the bottom of the valley.

The volcanic units in the valley floor along the course of Furry Creek are typically strongly sericitized and chloritized. In areas of intense alteration, these units have a well developed schistosity, and have been grouped within the "Britannia shear zone." The "Britannia shear zone" is a discordant zone of alteration which hosts the VMS deposits at Britannia and numerous small prospects such as the Robinson, Furry and Fairwest prospects in the Furry Creek valley. This shear/alteration zone has been traced eastwards to the Watershed Prospect, the focus of our 1986 program. (Gibson, 1984)

A 900 metre drill program at the Watershed Prospect at the head of Furry Creek intersected a complex succession of intercalated dacitic pyroclastic and rhyolite to dacite flows. The Watershed stratigraphy was interpreted to be a felsic vent area based on the observed thickening of the massive lower dacite dome, a quartz feldspar porphyritic unit (thin section evidence) which displays hyaloclastite textures and is locally flow banded.



**CRETACEOUS
COAST PLUTONIC COMPLEX**

- Granodiorite
- Diorite/Gabbro

**LOWER CRETACEOUS
MIDDLE GAMBIER GROUP**

- 1 Footwall Sequence
- 2 Mine Sequence
- 3 Hangingwall Sequence

LITHOLOGY

- Argillite
- Felsic Tuff/Ash
- Dacite Dome/Intrusion
- Dacitic Pyroclastic Rocks
- Andesitic Pyroclastic Rocks
- Basalt Flows

- Glory Holes
- Alteration

GEOLOGY OF THE FURRY CREEK AREA

0 500 1000m

MINNOVA

HG/dm

FIGURE 2

Geology of the Furry Creek Area (continued)

The four holes were drilled to test coincident VLF and DEEP-EM responses occurring in the area of outcrops of quartz-chalcopyrite-pyrite mineralization. The following is a list of stratigraphy encountered:

1. Andesite
2. Upper Dacite flow
3. Dacite Tuff-breccia
4. Dacitic Ashes, lapilli tuff
5. Lower Dacite flow (Q.F.P.)
6. Lower Contact Ashes

Two zinc-rich siliceous exhalative were hosted by dacite ashes situated above the lower Dacite flow. (Burge, 1986)

The summer mapping program continued toward the east into the Clipper Creek valley, where cliff faces on line 4 + 00 E expose the Watershed sequence intersected in the 1986 drill program.

Geology of the Furry - Clipper Divide

The purpose of the 1987 mapping program was to map out units encountered during drilling at the Watershed. Spectacular mineralization was located within this stratigraphy exposed in creek beds, cliff faces, and old workings 400 metres to the east (L4E).

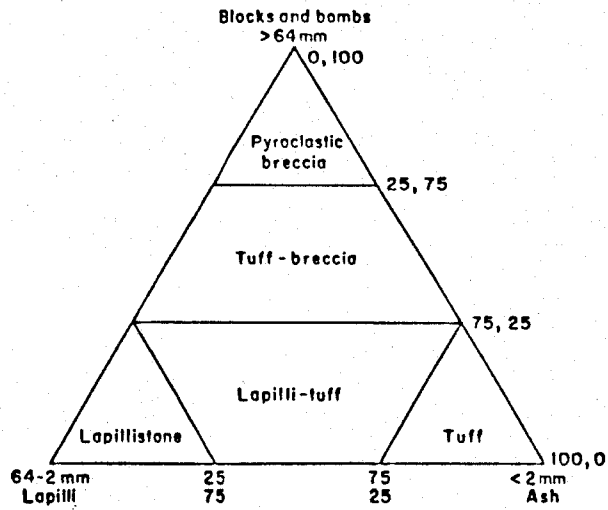
The majority of rock types outcropping are andesite to dacite volcanics with minor intercalations of argillite and chert first appearing around L6East and continuing toward the east (see Figure 4). The lowermost unit exposed in the valley floor is an andesitic to dacitic, heterolithic, lapilli tuff which contains numerous flame-like clots interpreted to be collapse pumice lapilli. Sulphide fragments occur within this unit. Stratigraphically above this unit a more competent felsic unit occurs as a emerald green, moderately foliated, homogeneous aphyric to quartz feldspar phyrlic rock. This unit is thought to be the stratigraphic equivalent of the Watershed Lower Dacite flow/dome. A complex succession of lapilli tuffs and fine grain dacitic ashes occur above this unit, which frequently contain disseminated chalcopyrite, pyrite and sphalerite mineralization. A coarse tuff-breccia unit is situated above these lapilli tuff/ashes and forms the immediate hanging wall unit to the mineralized rocks. The uppermost unit in the L4E area is a massive, homogeneous dacitic flow.

Geology of the Furry - Clipper Divide (continued)

The eastern part of the project area (L8E to L10E) contains a package of rocks which is interpreted to be stratigraphically below the L4East units. The lowest and most unusual member is an andesite unit which has been shattered into fragments and flooded with silica. The andesitic fragments contain 1 - 5% disseminated pyrite, and in some specimens, amygdules were recognized, suggesting this unit may have originally been a flow. The matrix silica content ranges from 5 to 50%. Structurally (and presumably stratigraphically) above this unit, a sequence of interbedded cherty argillites, rhyolite ashes and andesite to dacite lapilli tuffs, crystal tuffs and ashes were encountered. These units have been interpreted to represent a transitional sequence between dacitic and andesitic volcanism.

Structurally, the Furry - Clipper Divide sequence forms an anticline-syncline pair based on strike and dip information obtained in the field (see Figure 5). A moderate to intense foliation has been developed, especially affecting the pyroclastic rocks, and the degree of foliation is dependant on the degree of alteration.

All rocks have been classified according to Fisher, 1966 (Figure 3).



Classification of rocks formed from pyroclastic material (Fisher, 1966).

Classification of Volcaniclastic Rocks (Fisher, 1961, 1966)

FIGURE 3

MINERALIZATION AND ALTERATION

A number of showings of massive pyrite and massive chalcopyrite stringers occur hosted within the lower dacite flow/dome, a massive, homogenous unit. Extensive chlorite and sericite development accompanies these showings. Pyrite veins measuring up to 1 metre wide were found in the 4 + 70 E, 0 + 60 S area. Massive chalcopyrite stringers located 4 + 50 E, 0 + 70 S and 8 + 20 E, 0 + 80 N measured up to 5 cm and were accompanied by strong chlorite alteration. Chalcopyrite, sphalerite mineralization was also located within the lowermost silica-flooded andesite, notably at 8 + 70 E and 0 + 60 S, where the footwall silica-flooded andesite shows considerable barium enrichment (up to 5310 ppm).

Stratigraphically above this unit and striking between 0 + 50 S, 7 + 50 E and 1 + 00 S, 9 + 00 E is a zone of highly anomalous zinc values (up to 1.9% Zn). These anomalous values occur within transition rocks, and represent a significant target in 1988.

The Furry - Clipper divide has a soda depletion zone measuring 650 x 300 metres to where traverses ended on line 10 + 00 E. This alteration is discordant, and affects several different rock types.

CONCLUSIONS

Extensive chalcopyrite, pyrite and sphalerite stringer mineralization are considered to be those which accompany volcanogenic massive sulphide deposits. A large hydrothermal system was active within the rocks of the Furry - Clipper divide, as is evident by the large area of soda depletion and potassium enrichment combined with widespread quartz veining. The occurrence of chert and argillite units occurring in the L 8 + 00 E to L 9 + 00 E are the first sedimentary units encountered east of the Watershed. These sediments represent excellent drill targets, as they occur at a major lithologic contact. The presence of argillite lends support to the concept that these rocks have been deposited in a subaqueous environment. Values of up to 1.1% Cu and 1.9% Zn were obtained in these cherty ashbeds, and mapping showed this horizon to be stratigraphically above a silica flooded andesite breccia. This unit is remarkably similar to the "silica healed breccia" as described by Hodgson (1969) as the host for the No. 8 orebody in the prolific Britannia mine 5 kilometres to the west.

RECOMMENDATIONS

1. A helicopter-supported drill program to test geological/geochemical targets generated in 1987.
2. Extend geological mapping and sampling from L 10 E to L 26 E
3. VLF, Mag, and IP surveys should be performed over the remainder of the grid.

Drill test targets generated by geophysical surveys.

4. Locate, investigate and assess Bank of Vancouver, Sun, Belle, and Bulliondale prospects.

REFERENCES

Fisher, R.V., 1966, "Rocks composed of volcanic fragments and their classification," Earth Science Review, Vol. 1, p. 287-298.

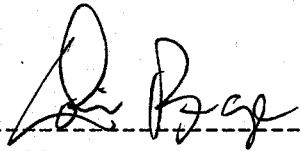
Hodgson, C.J., 1969, "Review of the Geology of the Britannia Miae" - internal Anaconda Report.

Gibson, H.L., 1984, "Exploration Potential of the Furry Creek Property and Geology of the Jane Basin - Furry Creek Area"- internal Corporation Falconbridge Copper Report.

Burge, C.M., 1986, "Summary of Exploration Activities Britannia Option" - internal Corporation Falconbridge Copper Report.

STATEMENT OF QUALIFICATIONS

I, Colin Burge, hereby certify that I hold a Bachelor of Science Degree (1981) from the University of Waterloo, Ontario, and that I have based conclusions contained in this report on knowledge of the area, my previous experience, and the results of the fieldwork conducted on the property.

A handwritten signature in black ink, appearing to read "Colin Burge", written over a horizontal dashed line.

Colin Burge
Exploration Geologist
Vancouver, BC

APPENDIX I

WORK DONE IN 1987

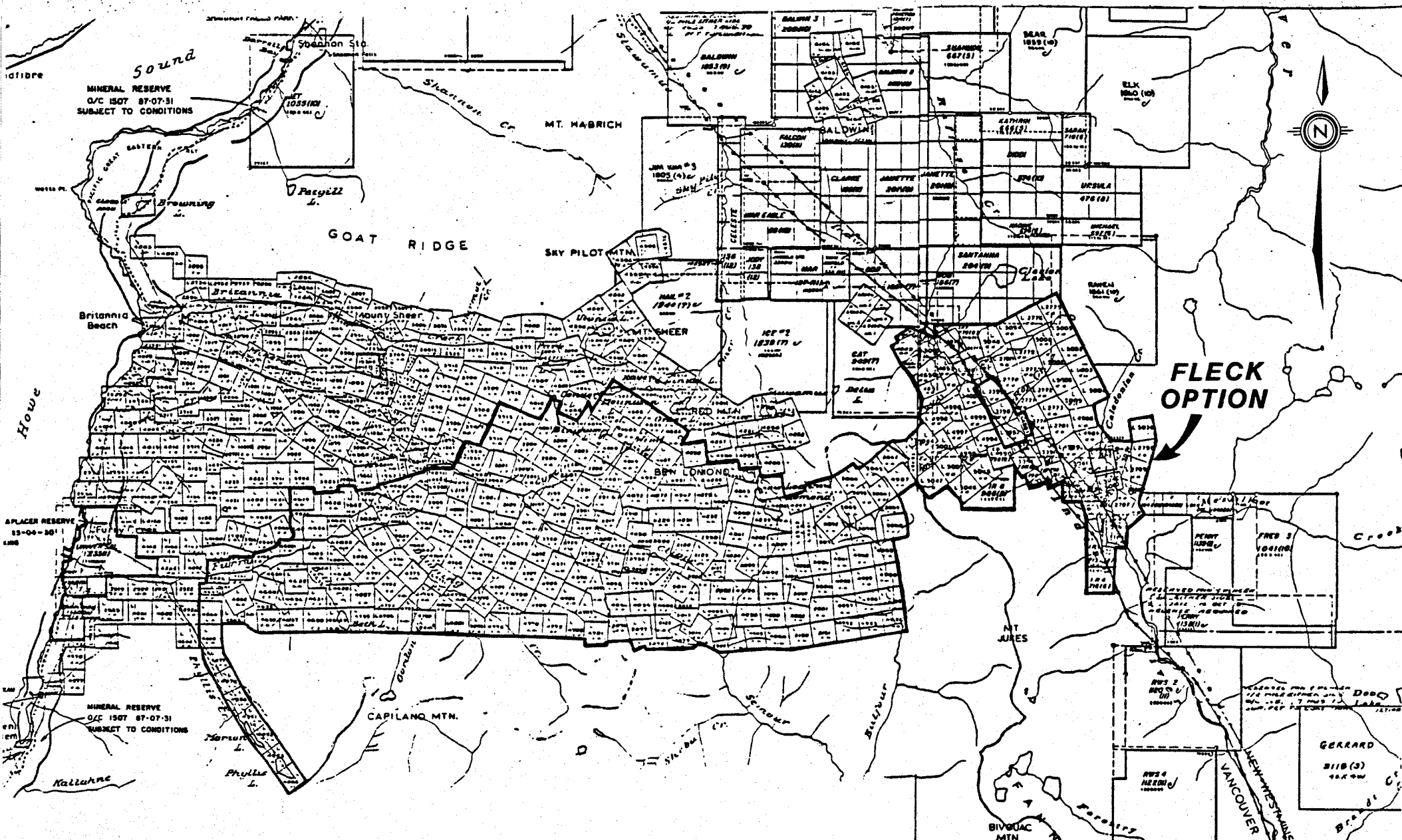
APPENDIX 1

SUMMARY OF WORK DONE - 1987 PROGRAM

- Linecutting: 16 kilometres of line was added to the existing Furry Creek grid.
- Geology: 12 kilometers of 1:1000 scale grid mapping was completed in rugged terrain.
- Geochemistry: Approximately 135 rock samples and 10 assay samples were collected in the Furry - Clipper Divide Area.
- Site Preparation: One drill set-up was constructed in rugged terrain for the 1988 program.

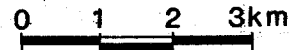
APPENDIX II

CLAIM MAP



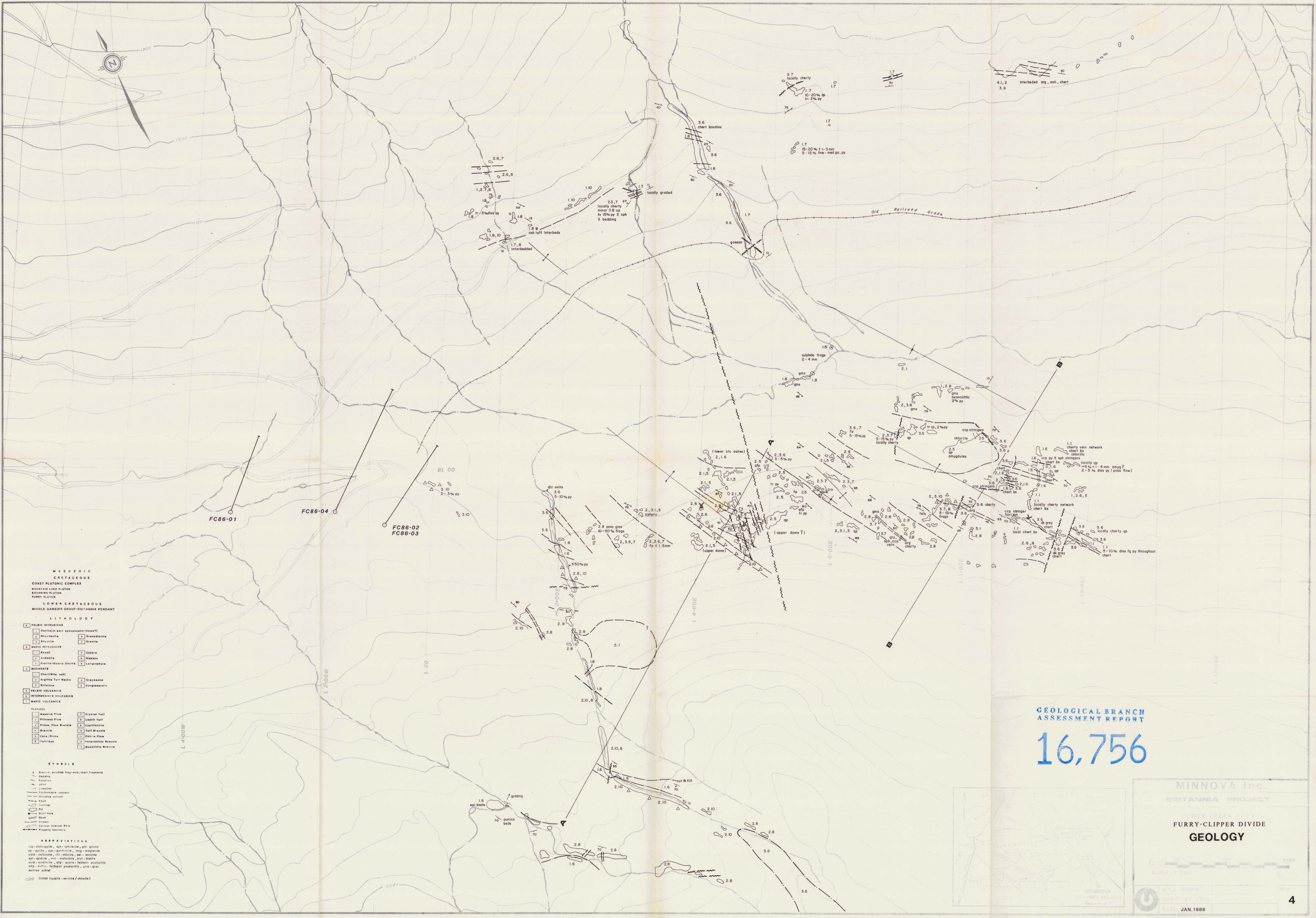
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1: 100,000



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**FLECK-BRITANNIA OPTION
CLAIM MAP**



- MESOZOIC CRETACEOUS**
- COAST PLUTONIC COMPLEX**
- MOUNTAIN LAKE PLUTON
 BOWEN PLUTON
 PERRY PLUTON
- LOWER CRETACEOUS**
- MIDDLE GAMBIER GROUP-BRITANNIA PENDANT
- LITHOLOGY**
- FELIC INTRUSIONS**
 - Quartzite (with apophyses/flow?)
 - Granodiorite
 - Granite
 - MAFIC INTRUSIONS**
 - Basalt
 - Andesite
 - Diorite-Quartz diorite
 - Gabbro
 - Diorite
 - Largely unknown
 - SEDIMENTS**
 - Chert (thin, ash)
 - Quartzite Tuff (wacke)
 - Siltstone
 - Shale
 - Graywacke
 - Conglomerate
 - FELIC VOLCANICS**
 - INTERMEDIATE VOLCANICS**
 - MAFIC VOLCANICS**
- TEXTURES**
- Lava Flow
 - Flow Flow
 - Flow, Flow Breccia
 - Block
 - Lava Flow
 - Tuff/Ash
 - Crystal Tuff
 - Lapilli Tuff
 - Capillatone
 - Tuff Breccia
 - Lava Flow
 - Interstratified Breccia
 - Mantle Breccia
- SYMBOLS**
- Basaltic, andesitic, rhyolitic, chert fragments
 - Bedding
 - Foliation
 - Joint
 - Location
 - Contact
 - Unconformity contact
 - Horizon contact
 - Apophysis
 - Outcrop
 - Flow
 - Diast. Hole
 - Road
 - Stream
 - Contour Interval 50'
 - Property Boundary
- ABBREVIATIONS**
- ccp - cordierite, sph - sphalerite, qtz - quartz
 py - pyrite, opa - orthopyroxene, opa - magnetite
 carb - carbonate, chl - chlorite, ser - sericite
 epid - epidote, mt - micas, bi - biotite
 cord - cordierite, qtz - quartz, feldsp - feldspar, porphy - porphyry
 epid - epidote, feldsp - feldspar, porphy - porphyry
 mt - mica, bi - biotite, opa - orthopyroxene, opa - magnetite
 schist (quartz - schist / chlorite)

**GEOLOGICAL BRANCH
 ASSESSMENT REPORT**

16,756

MINNOVA Inc.
 BRITANNIA PROJECT

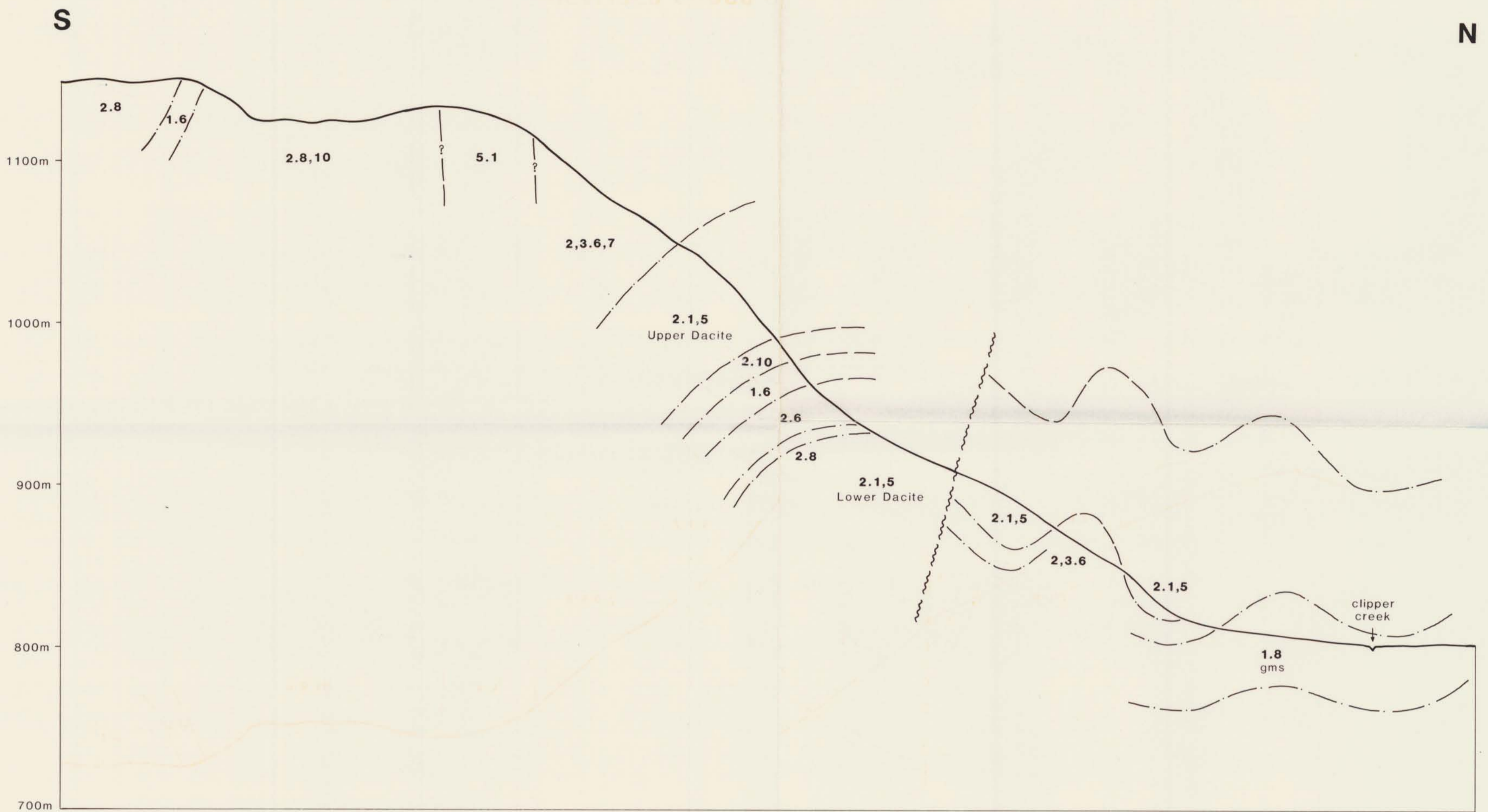
FURRY CREEK AREA
 FURRY-CLIPPER DIVIDE
GEOLOGY

SCALE: 1:2500

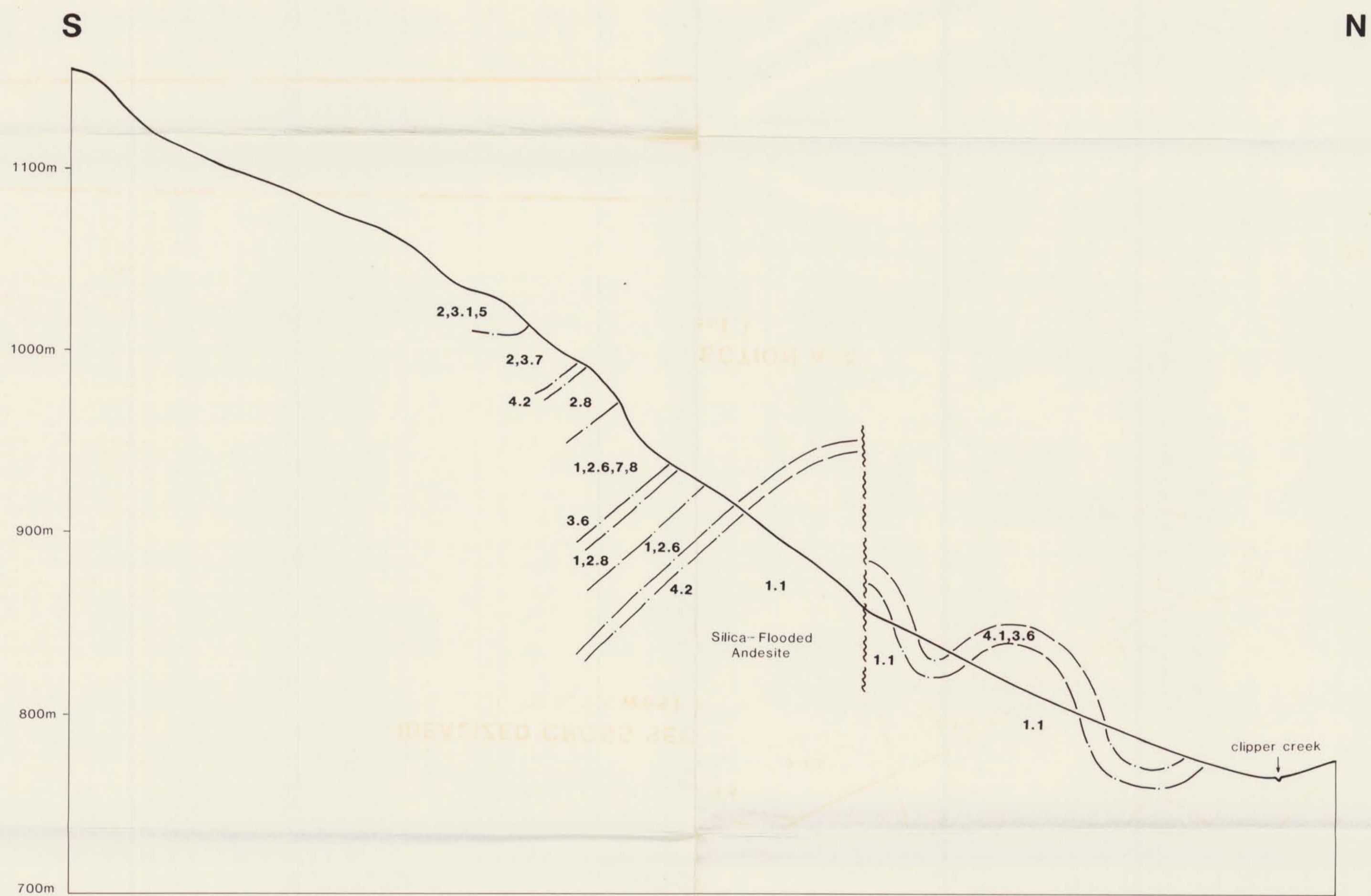
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DATE: JAN. 1988

4



IDEALIZED CROSS SECTION A-A'
(looking west)



IDEALIZED CROSS SECTION B-B'
(looking west)

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ASSESSMENT REPORT

Geology by MACROBBIE/BURGE
Interpretation by BURGE/MACROBBIE

16,756

- MESOZOIC
CRETACEOUS
- COAST PLUTONIC COMPLEX
MOUNTAIN LAKE PLUTON
BOGAMISH PLUTON
FURRY PLUTON
- LOWER CRETACEOUS
MIDDLE GAMBIER GROUP-BRITANNIA PENDANT
- LITHOLOGY
- ☐ FELSIC INTRUSIONS
 - ☐ Dioritic (partly syenitic)-flow(?)
 - ☐ Rhynchoclastite
 - ☐ Anorthite
 - ☐ Granite
 - ☐ MAFIC INTRUSIONS
 - ☐ Basalt
 - ☐ Andesite
 - ☐ Diabase
 - ☐ Quartz diorite
 - ☐ Lamprophyre
 - ☐ SEDIMENTS
 - ☐ Chert (Siliceous)
 - ☐ Argillite Tuff. Mace
 - ☐ Siltstone
 - ☐ Graywacke
 - ☐ Conglomerate
 - ☐ FELSIC VOLCANICS
 - ☐ INTERMEDIATE VOLCANICS
 - ☐ MAFIC VOLCANICS
- TEXTURES
- ☐ Massive Flow
 - ☐ Rhynchoclastite
 - ☐ Pillowed Flow
 - ☐ Flow, Flow Breccia
 - ☐ Breccia
 - ☐ Lava/Dome
 - ☐ Tuff/Ash
 - ☐ Crystal Tuff
 - ☐ Lepidite Tuff
 - ☐ Lepidite
 - ☐ Tuff Breccia
 - ☐ Debris Flow
 - ☐ Metaclastic Breccia
 - ☐ Monolithic Breccia

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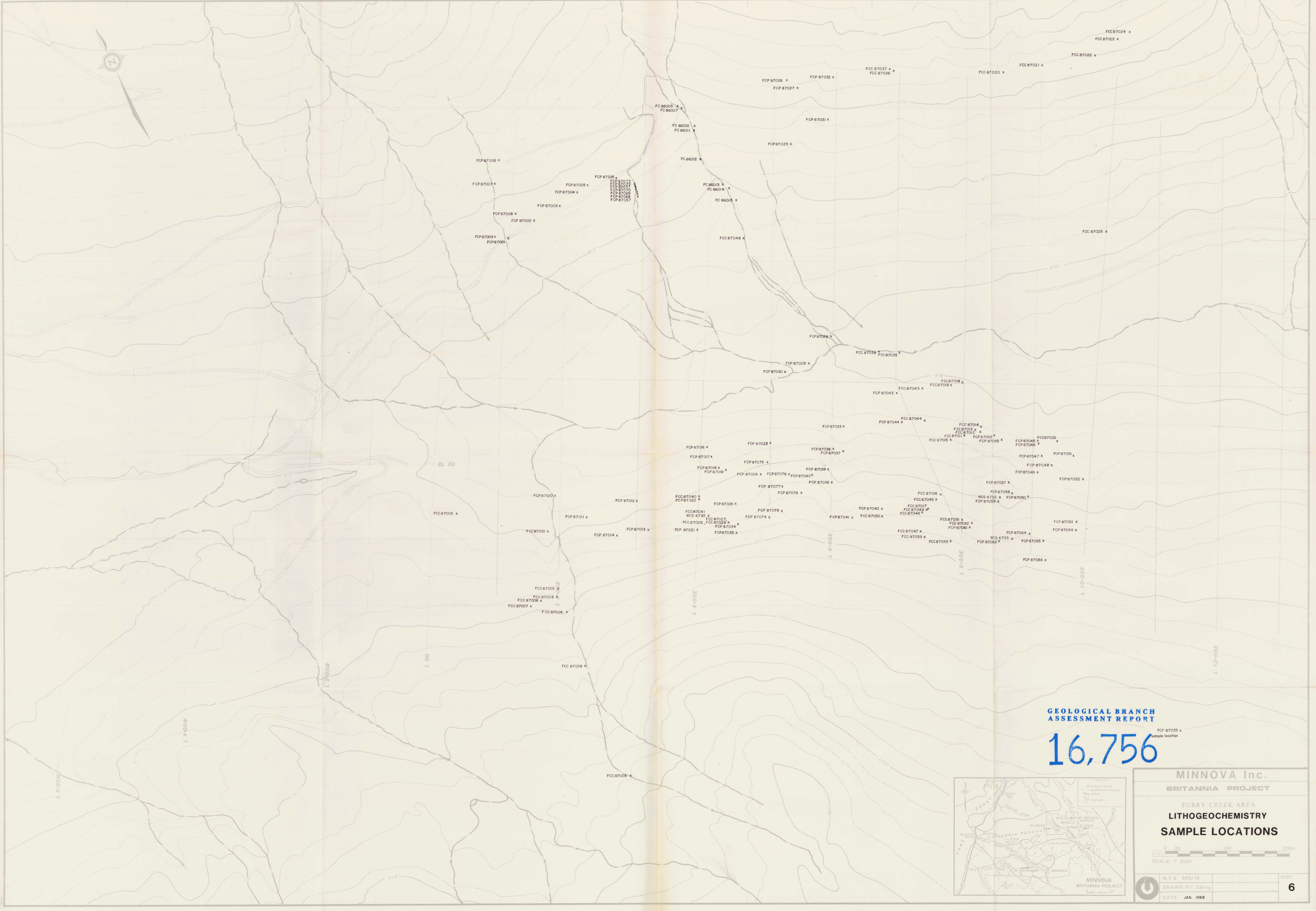
BRITANNIA PROJECT

FURRY CREEK AREA
FURRY-CLIPPER DIVIDE

**STRUCTURAL
CROSS SECTIONS**

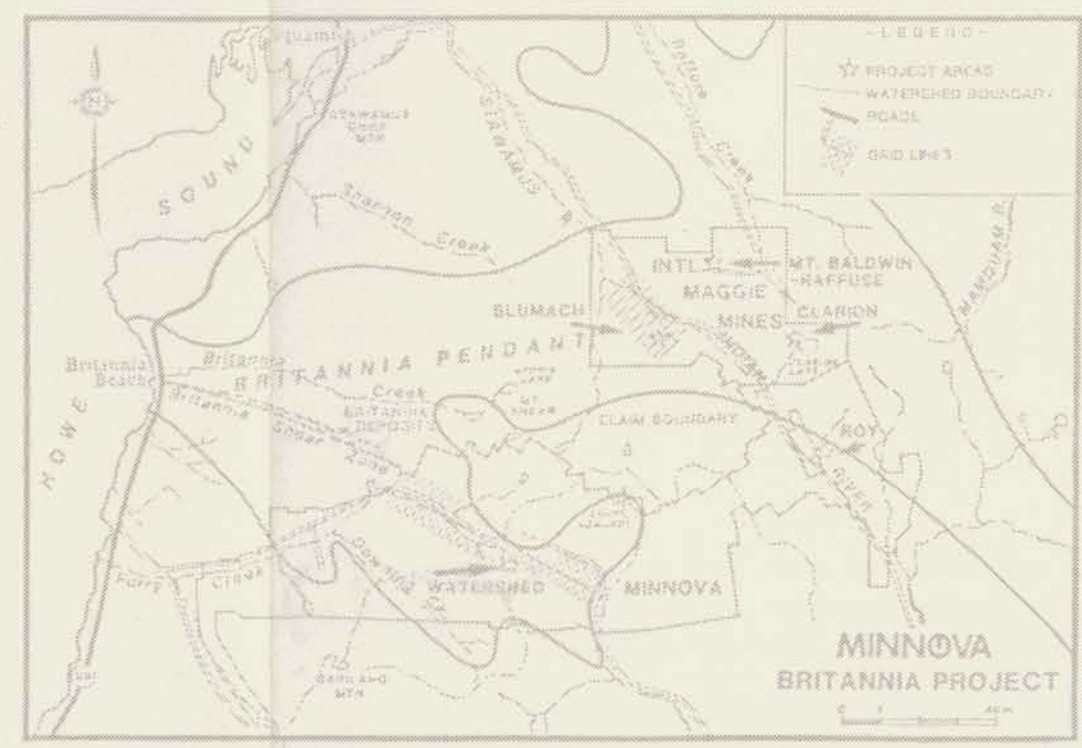
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	DATE: JAN.1988	5



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ASSESSMENT REPORT

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FURRY CREEK AREA
**LITHOGEOCHEMISTRY
SAMPLE LOCATIONS**

0 20 100 200m
SCALE: 1:2000

N.T.S. 926/10	MAP
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DATE: JAN. 1988	



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ASSESSMENT REPORT**

16,756

ASSAY	Cu %	Pb %	Zn %	Ag g/t	Au g/t	Ba %
BCS 4730	0.320	0.04	5.80	5.9	0.02	0.01
BCS 4732	1.900	0.01	0.02	9.0	0.02	0.10
BCS 4733	4.850	0.02	0.02	41.0	0.02	0.01

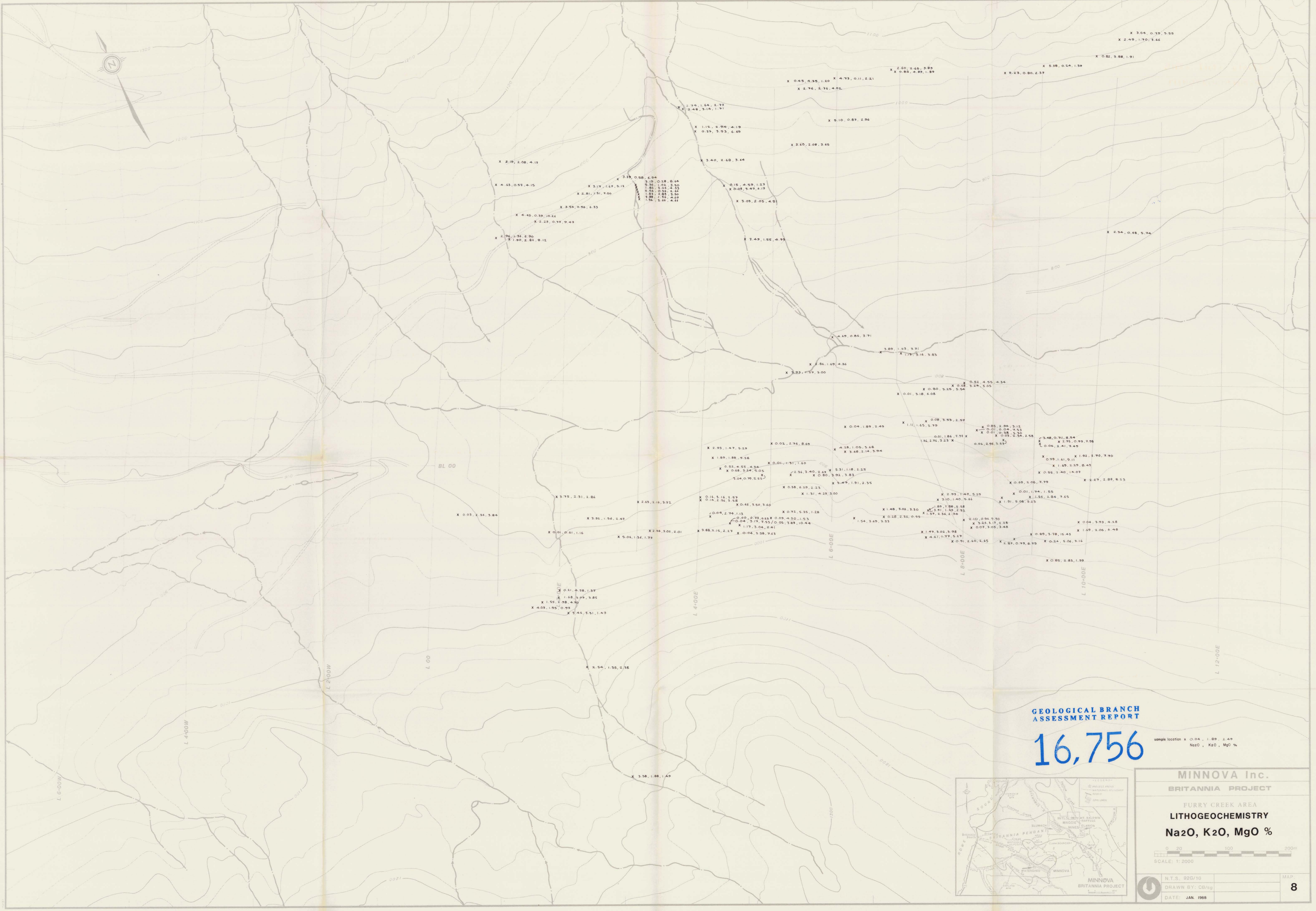
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**FURRY CREEK AREA
LITHOGEOCHEMISTRY
Cu, Zn, Ba ppm**



N.T.S. 920/10
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DATE: JAN. 1988

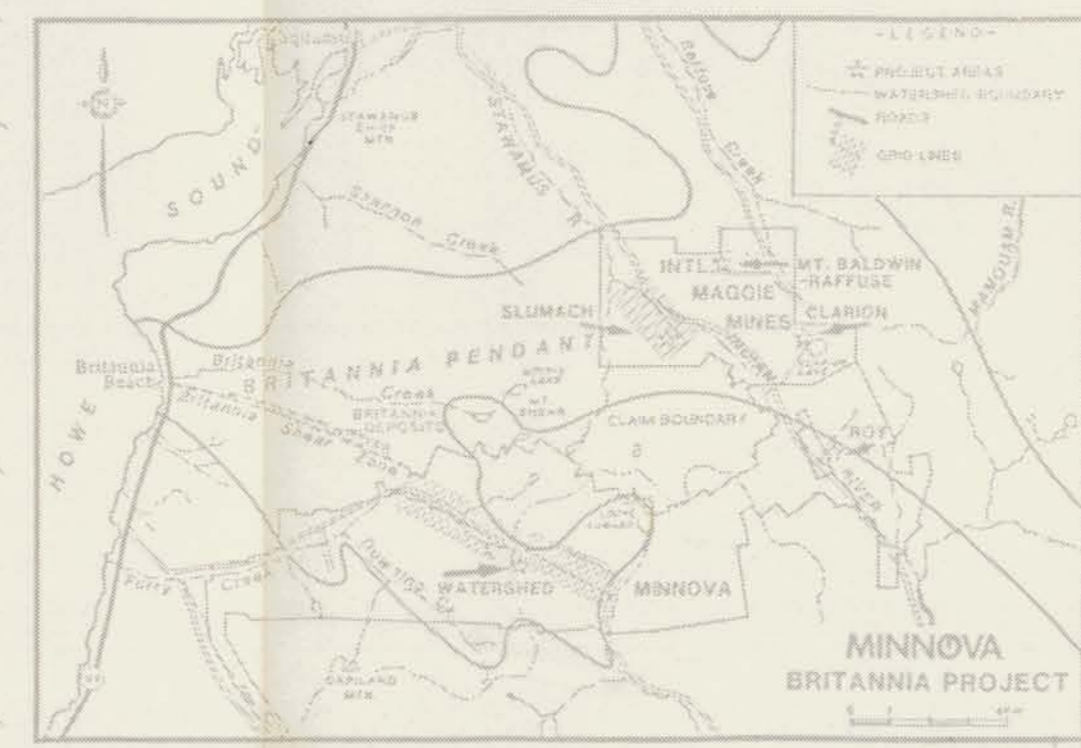




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ASSESSMENT REPORT**

16,756

sample location X 0.04, 1.89, 2.49
Na₂O, K₂O, MgO %

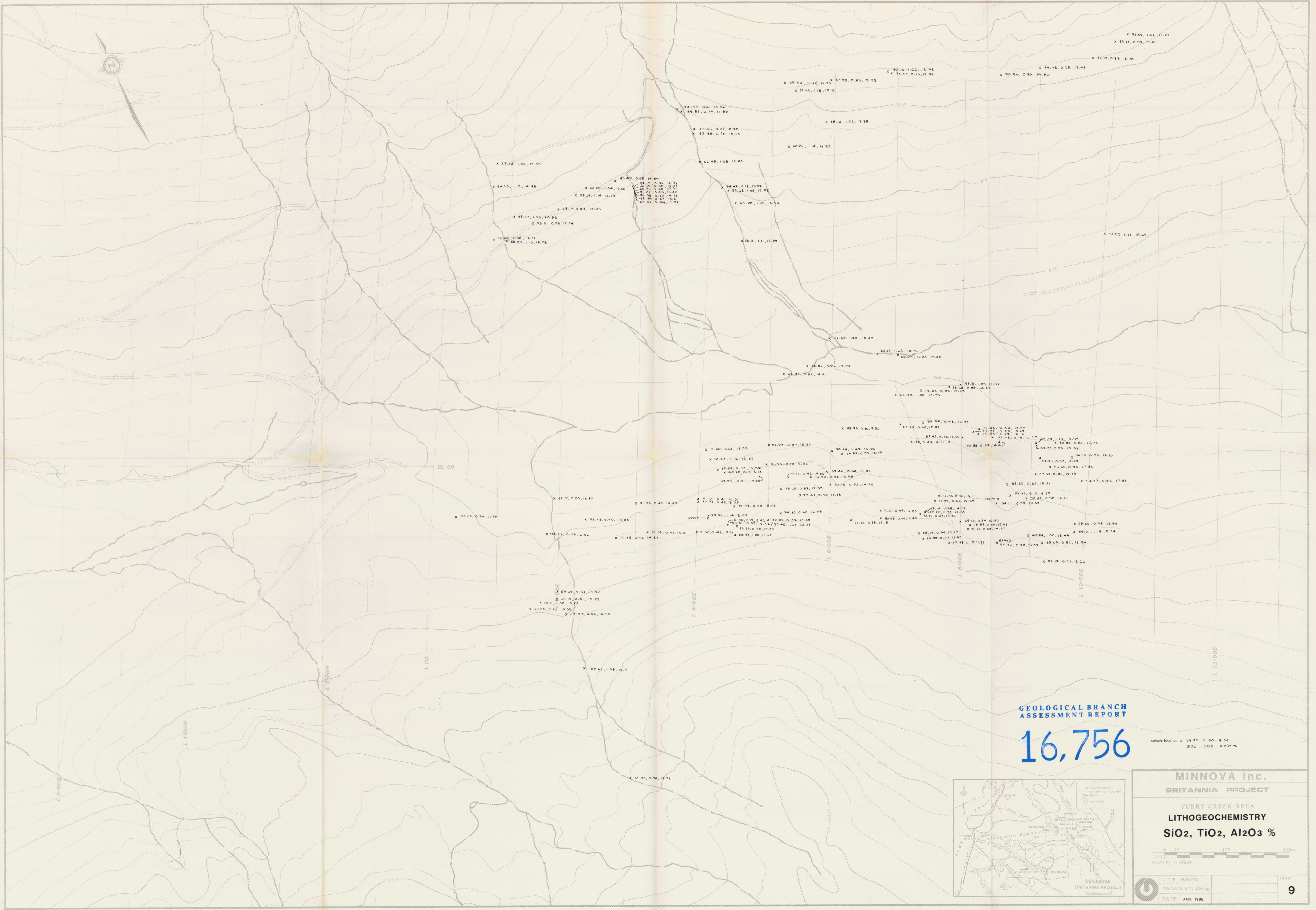


MINNOVA Inc.
BRITANNIA PROJECT

FURRY CREEK AREA
LITHOGEOCHEMISTRY
Na₂O, K₂O, MgO %

0 20 100 200m
SCALE: 1:2000

N.T.S. 926/10	MAP
DRAWN BY: CB/sg	8
DATE: JAN. 1988	



X 54.09, 1.02, 16.81
X 66.13, 0.99, 14.61

X 74.78, 0.23, 12.44
X 70.50, 0.30, 14.90

X 60.15, 1.02, 15.73
X 74.45, 0.16, 12.86

X 75.52, 0.18, 15.05
X 61.62, 1.18, 15.81

X 74.44, 0.21, 14.52
X 75.85, 0.14, 11.89

X 58.12, 1.02, 17.38

X 60.04, 1.14, 16.53

X 67.62, 1.02, 13.25

X 62.49, 1.08, 16.80

X 64.25, 1.13, 14.78

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X 65.15, 0.96, 15.11
X 64.85, 0.88, 15.31
X 64.25, 0.80, 15.42
X 63.75, 0.60, 14.96
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X 74.47, 0.18, 13.77
X 59.28, 1.09, 15.83

X 64.08, 1.02, 15.48

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X 53.31, 0.93, 17.74

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X 55.88, 1.10, 18.78

X 60.31, 1.11, 16.89

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X 54.21, 0.97, 18.07

X 73.05, 0.34, 11.79

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X 71.25, 0.48, 14.48

X 72.43, 0.40, 14.05
X 72.64, 0.41, 14.01
X 71.55, 0.42, 14.87

X 71.30, 0.46, 15.06
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X 77.70, 0.14, 8.97
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X 73.40, 1.17, 20.21
X 69.37, 0.48, 13.44

X 71.68, 0.58, 13.13
X 80.98, 0.41, 7.40
X 77.75, 0.39, 11.70

X 68.45, 0.56, 15.47
X 64.99, 0.67, 14.43
X 77.78, 0.19, 11.34

X 55.47, 0.84, 15.80
X 65.88, 0.59, 16.93
X 71.17, 0.58, 14.20

X 42.74, 1.00, 18.44
X 55.01, 1.18, 15.34

X 65.45, 0.78, 16.84
X 45.09, 0.82, 16.94

X 73.77, 0.21, 13.22

X 65.25, 0.53, 14.99
X 68.19, 0.51, 15.73
X 59.11, 1.08, 15.97
X 67.07, 0.62, 15.05
X 67.87, 0.55, 15.70

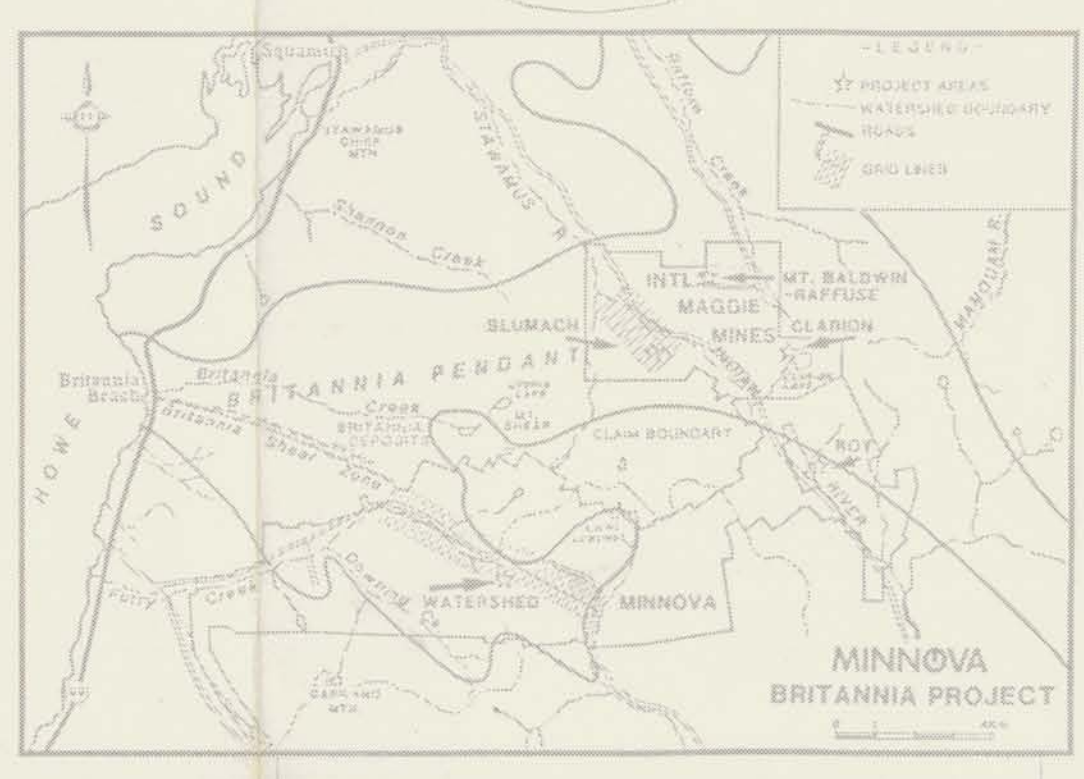
X 59.61, 1.38, 15.77

X 65.35, 0.58, 12.96

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

16,756

sample location X 75.79, 0.30, 8.36
SiO₂, TiO₂, Al₂O₃ %

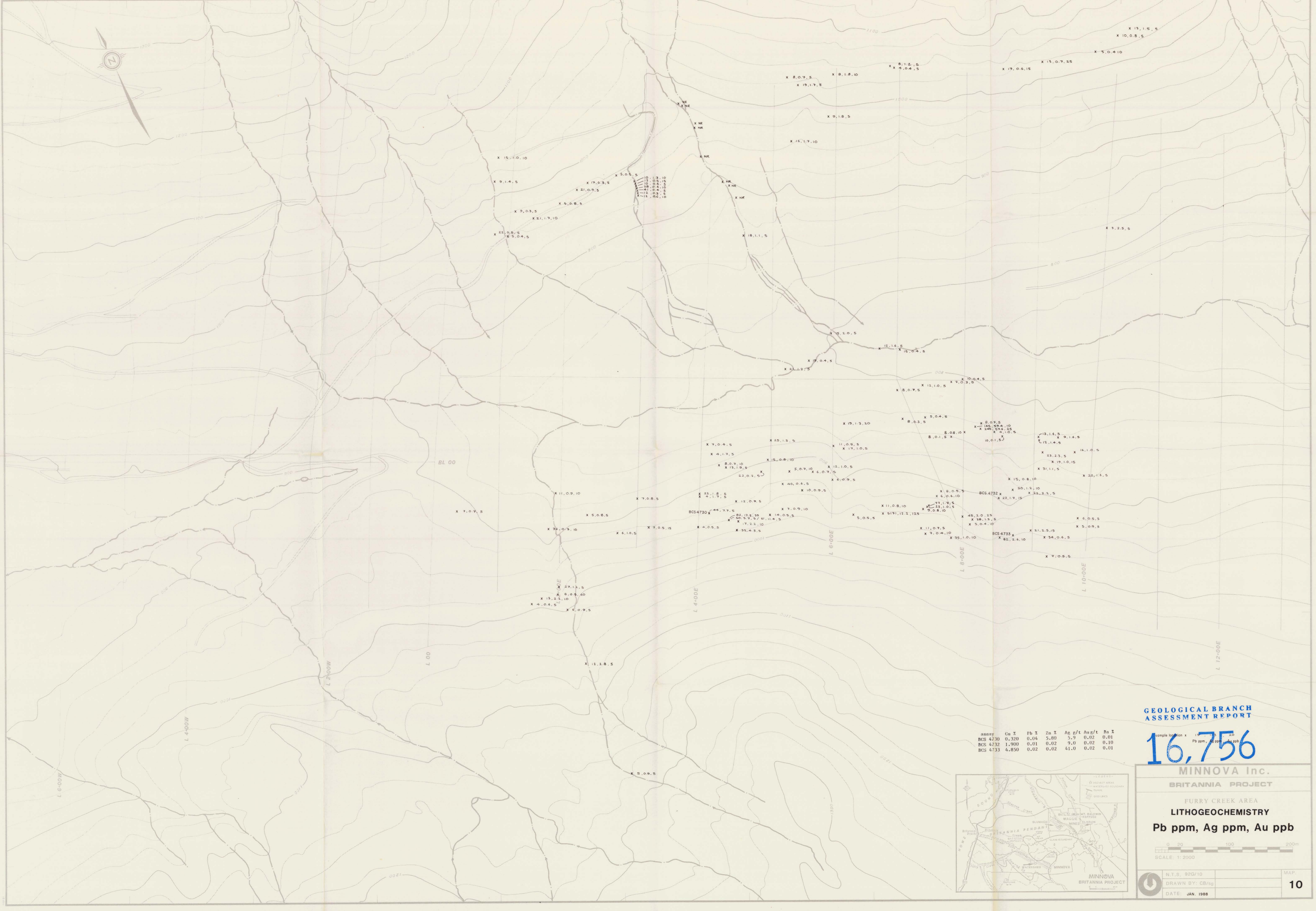


MINNOVA Inc.
BRITANNIA PROJECT

FURRY CREEK AREA
LITHOGEOCHEMISTRY
SiO₂, TiO₂, Al₂O₃ %

0 20 100 200m
SCALE: 1:2000

N.T.S. 826/10	MAP:
DRAWN BY: CB/sp	9
DATE: JAN. 1988	



**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

sample location	Cu %	Pb %	Zn %	Ag g/t	Au g/t	Ba %
BCS 4730	0.320	0.04	5.00	5.7	0.02	0.01
BCS 4732	1.900	0.01	0.02	9.0	0.02	0.10
BCS 4733	4.850	0.02	0.02	41.0	0.02	0.01

16,756

MINNOVA Inc.
BRITANNIA PROJECT

FURRY CREEK AREA
LITHOGEOCHEMISTRY
Pb ppm, Ag ppm, Au ppb

