



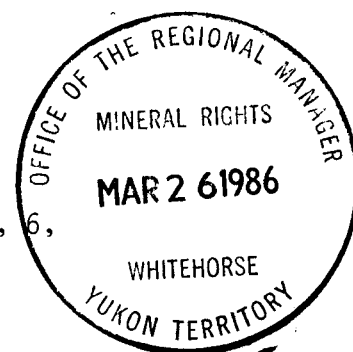
TATAM RESOURCES INC.  
1985 TRENCHING AND DRILLING  
OF THE BUR PROPERTY YUKON

**091796**

Work on

Claims EL 7, 40, 42, 44, 46-49, 67, 68, 70, JO 4, 6,  
SUE 1-4, DEN 10, WEN 3, 5, 7, AND 9, 11  
JY 27, 28, 31-33, 37, 40, 49, 51, 58

Whitehorse Mining District



Geographic Coordinates  
61° 22'N  
139° 18'W  
NTS Sheet 115 G/6

by  
L.B. Halferdahl, Ph.D., P.Eng.

1986 03 01

Work on Property Conducted 1985 06 25 to 1985 11 15

Halferdahl & Associates Ltd.  
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Edmonton, Alberta  
T6E 1X7

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## SECTION 1.0

## INTRODUCTION

Exploration of the Bur property, now held by Tatam Resources Inc., continued in 1985 with the coring of four diamond drillholes, constructing access to them, as well as other access trails, trenching and stripping. Details of this work are presented in this report. A D7 bulldozer was used for the construction of access trails and drillsites, and for the trenching and stripping. A Longyear Super 38 was used for the drilling with NQ core being obtained.

## SECTION 2.0

## ACCESS TRAILS

The trail previously constructed up Bea Creek was improved (Fig. 2.1 and 2.2). In addition a trail branching off this trail was constructed to Bea Lake and beyond to Frying Pan Creek, and thence up Frying Pan Creek to the mouth of Frying Pan Pup. The part of this trail from Bea Creek to Bea Lake is on permafrost so will require further work in another season. From Bea Lake to Frying Pan Creek the trail traverses a poplar slope free of permafrost, and along Frying Pan Creek is mostly in gravel and poplars or willows as far as it was constructed.

The trail previously constructed up Mullere Creek was improved and extended (Fig. 2.3). Permafrost and up to 2 m of water-filled clay for a length of 60 m posed difficulties; further work will be required in another season.

The trail previously constructed southerly from Burwash Creek to the uplands above almost opposite the mouth of Mullere Creek was improved (Fig. 2.3).

The access trail from Burwash Creek to the lower sump was improved enough so that the drill could be moved to the site of drillhole 85-3 along it (Fig. 2.6). In addition an access trail was constructed in order to move the drill from drillhole 85-3 to 85-4, and subsequently extended with numerous switchbacks to Tatamagouche Creek below (Fig. 2.6).

An access trail was constructed from Burwash Creek near the mouth of 105 Pup up 101 Pup to the uplands above (Fig. 2.4) in order to reach the areas stripped on claims And 9, 11 and Sue 1-4 (Fig. 2.3).

The lower road through part of the Upper Canyon of Burwash Creek was improved for truck access (Fig. 2.5) in order to avoid the steep grades and sharp curves on part of the upper road.

The trail up Johnson Creek was improved to four-wheel-drive capabilities to reach drillholes 85-1 and 85-2 (Fig. 2.5). Other trails to future drill sites in the area were improved.

## SECTION 3.0

## TRENCHING AND STRIPPING

Two long areas were stripped on claims Sue 1-4 (Fig. 2.3) and And 9, 11 (Fig. 2.4) with the intention of deepening them to the base of the glacial till in another season. Another area was stripped where the trail crosses 101 Pup to facilitate this crossing (Fig. 2.4).

A small trench was excavated on claim Jy 31 at the camp for camp purposes (Fig. 2.4)

A ditch was excavated from near the lower sump to drillhole 85-3 when the water in the lower sump unexpectedly drained (Fig. 2.6).

The lower wall of the lower sump was repaired and the sump itself deepened to provide water for subsequent drilling in the area.

## SECTION 4.0

## DIAMOND DRILLING

Four holes were diamond-drilled as follows:

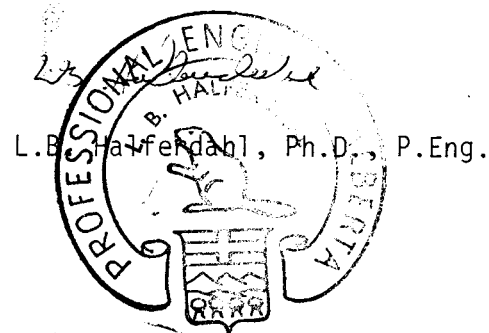
<u>Hole</u>	<u>Length</u>	<u>Claim</u>
85-1	101.96 m	Jy 58
85-2	100.89	Jy 51
85-3	76.20	Wen 5
85-4	173.75	Wen 7

452.80 m

Holes 85-1 and 85-2 were drilled along the trench previously excavated on the spur between Johnson and Flynn Creeks near the west end of the property (Fig. 2.5). Holes 85-3 and 85-4 were drilled above and within Tatamagouche Canyon (Fig. 2.6).

Lithological logs are in Appendix 1 and reports of analyses of samples from the holes are in Appendix 2.

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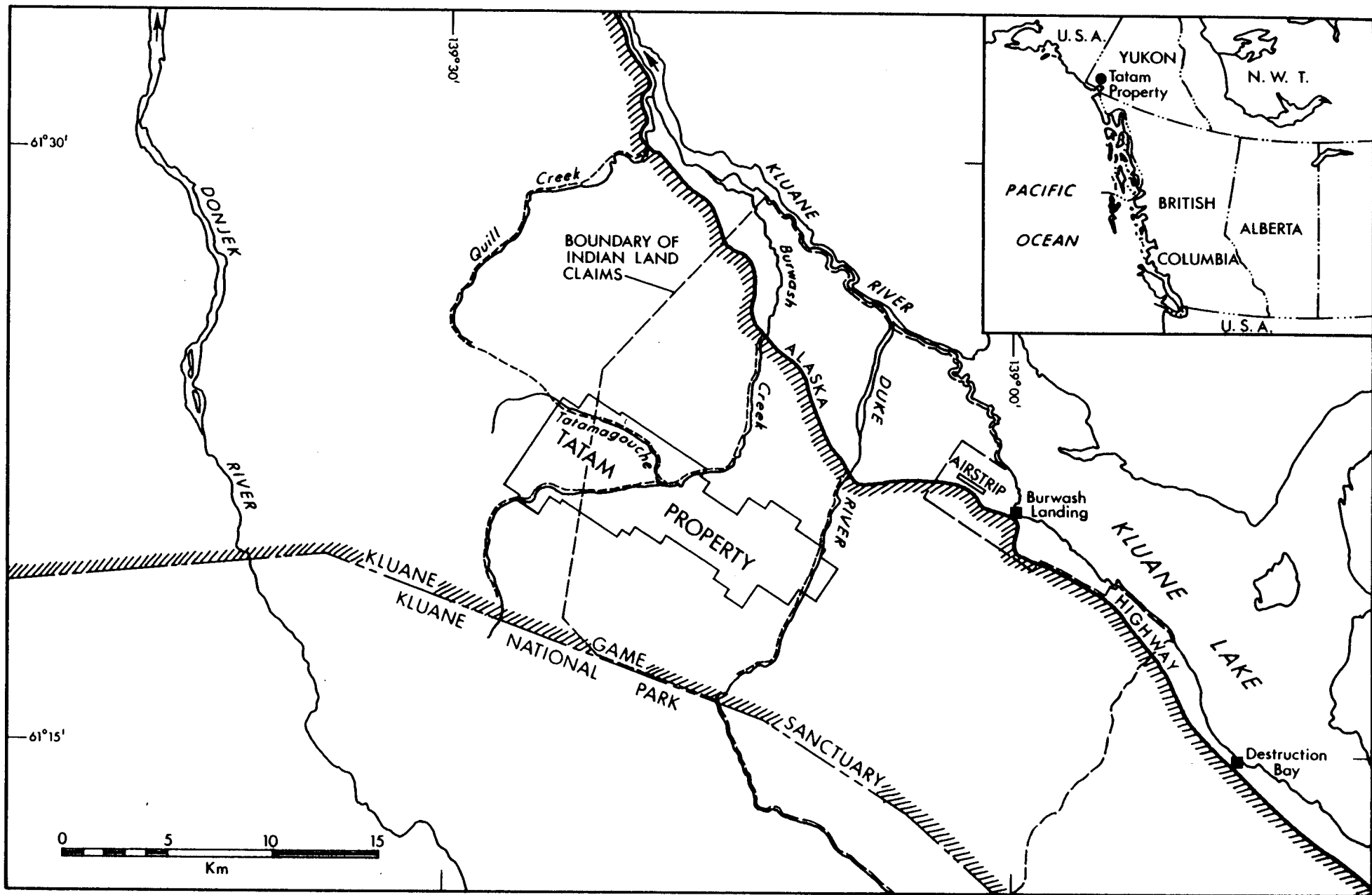
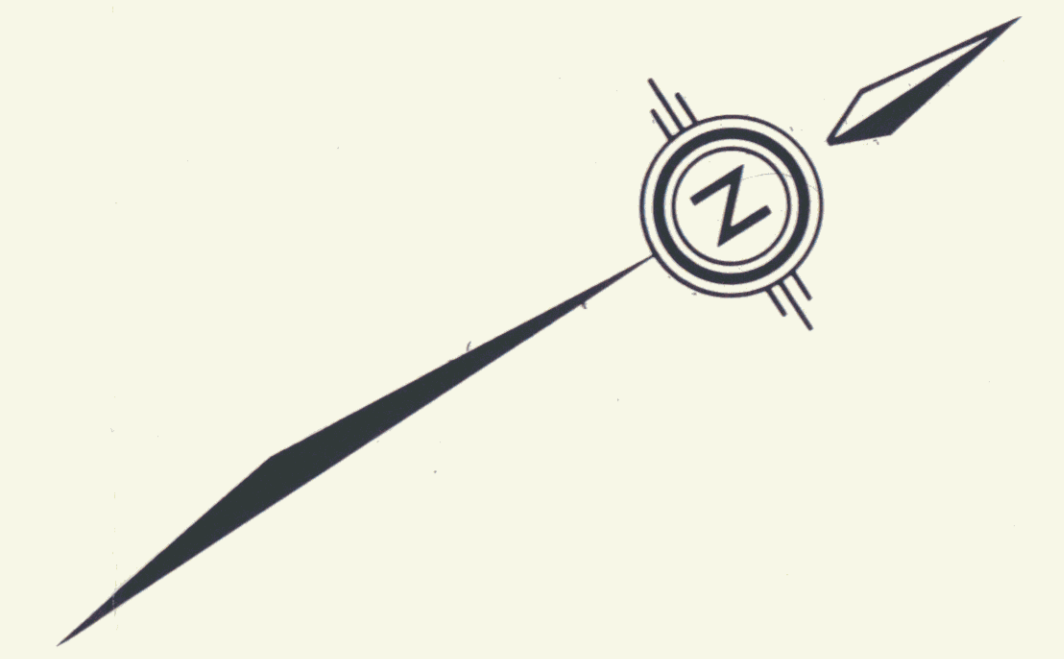
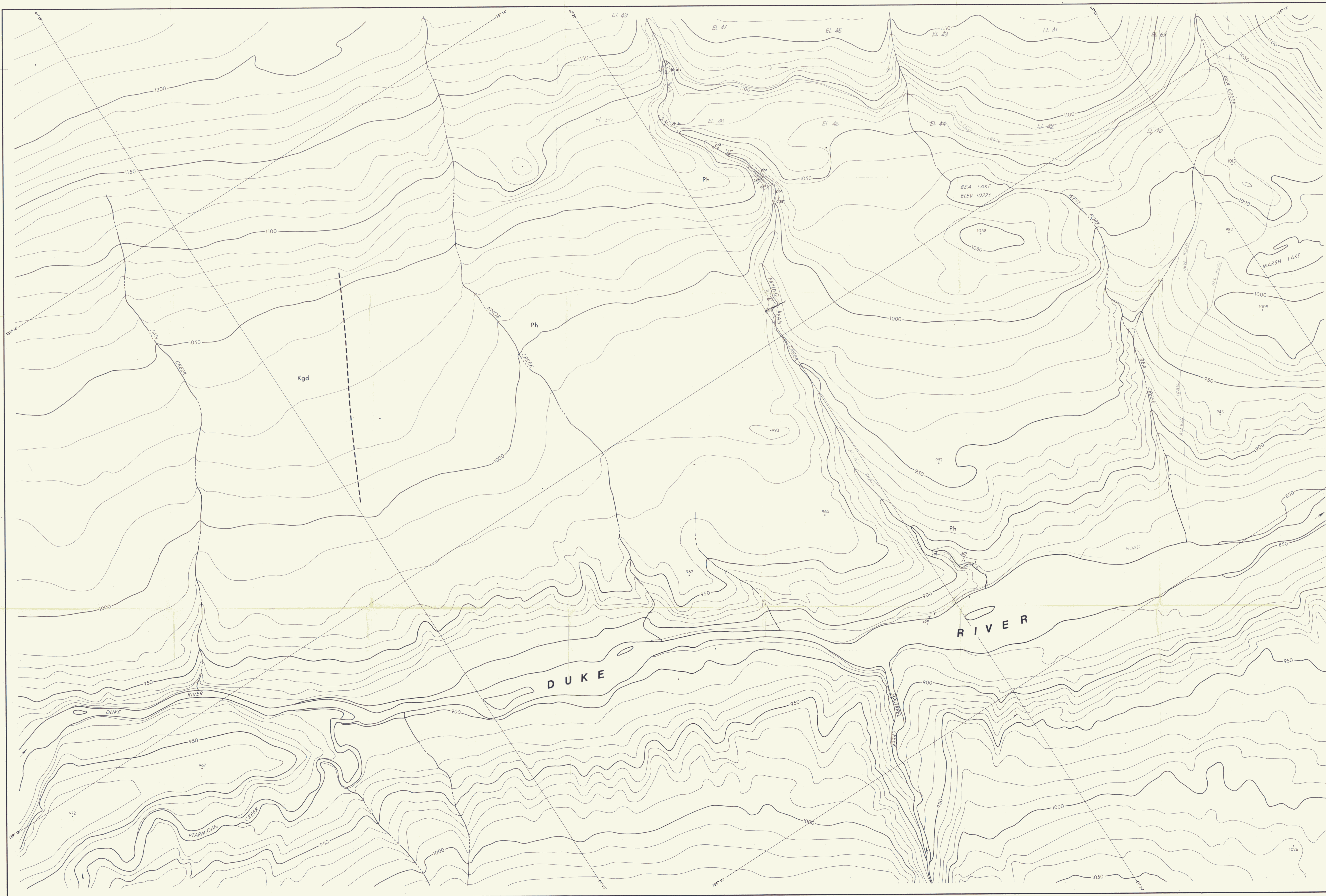
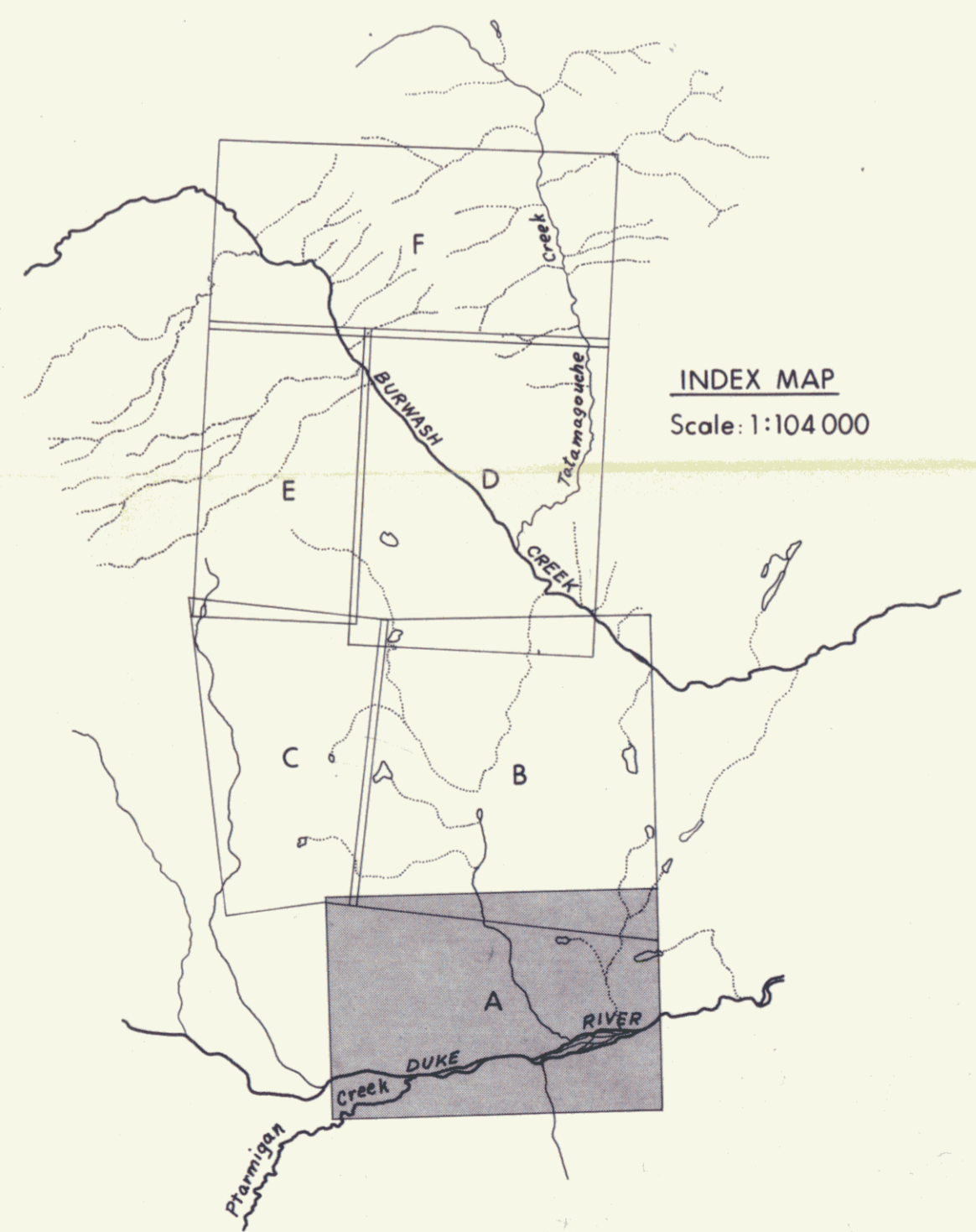


Fig. 1.1 Location and Index Map



LEGEND  
See fig. 5-4

- SYMBOLS
- Geological boundary, defined ..... - - - - -
  - approximate ..... - · - · -
  - Area of outcrop ..... [shaded area]
  - Isolated outcrop ..... x
  - Strike and dip of bedding ..... | 68°
  - Fault, defined, approximate ..... [wavy line]



INDEX MAP  
Scale: 1:104 000

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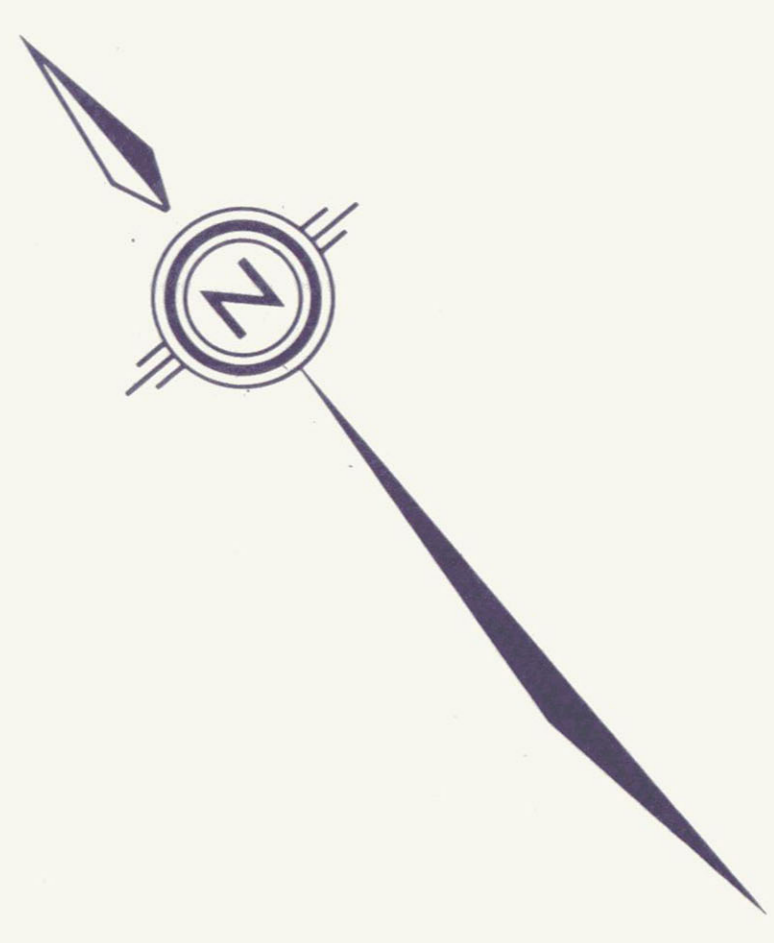
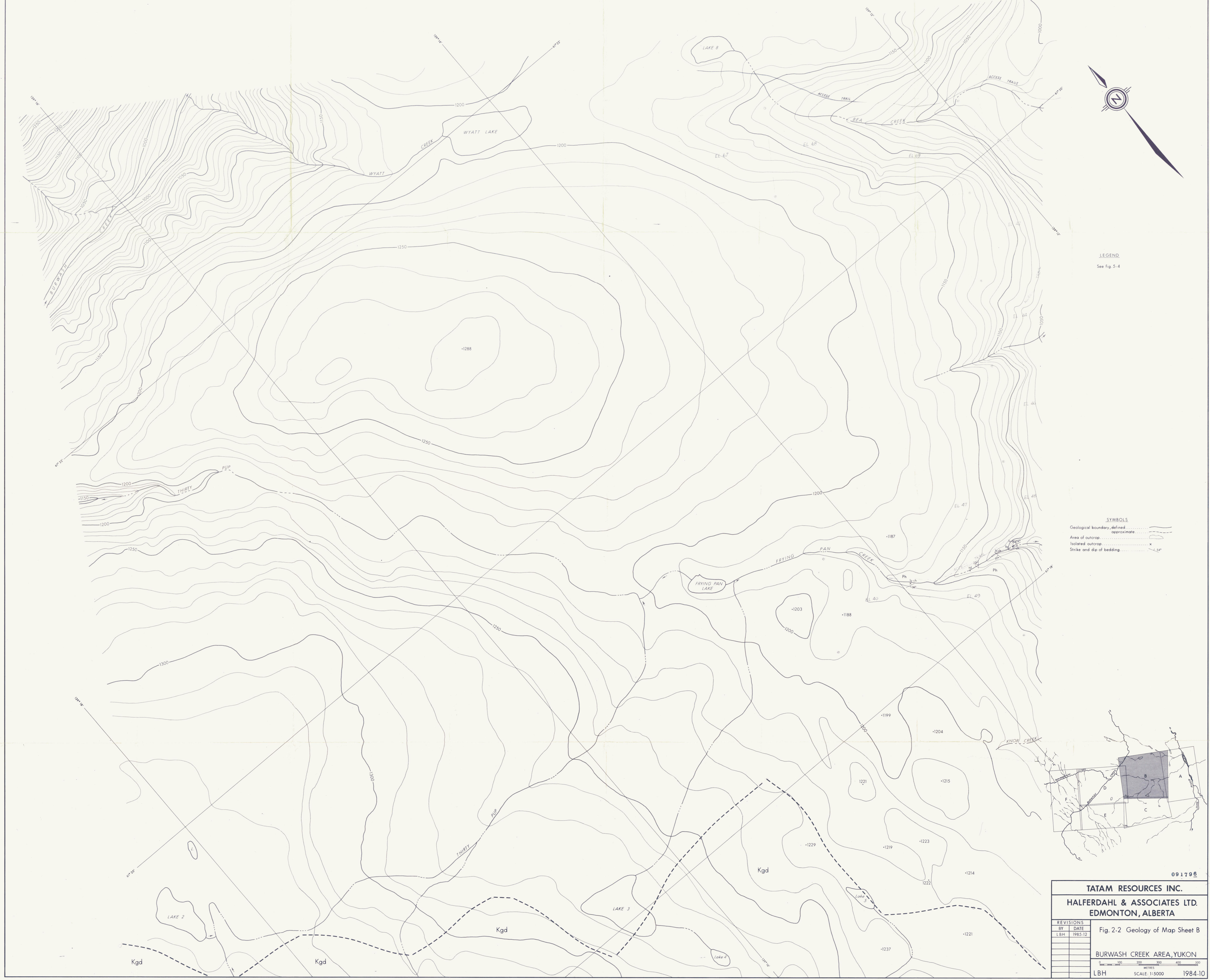
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**HALFERDAHL & ASSOCIATES LTD.**  
**EDMONTON, ALBERTA**

REVISIONS	
BY	DATE
LBH	1985.12

Fig. 2-1 Geology of Map Sheet A

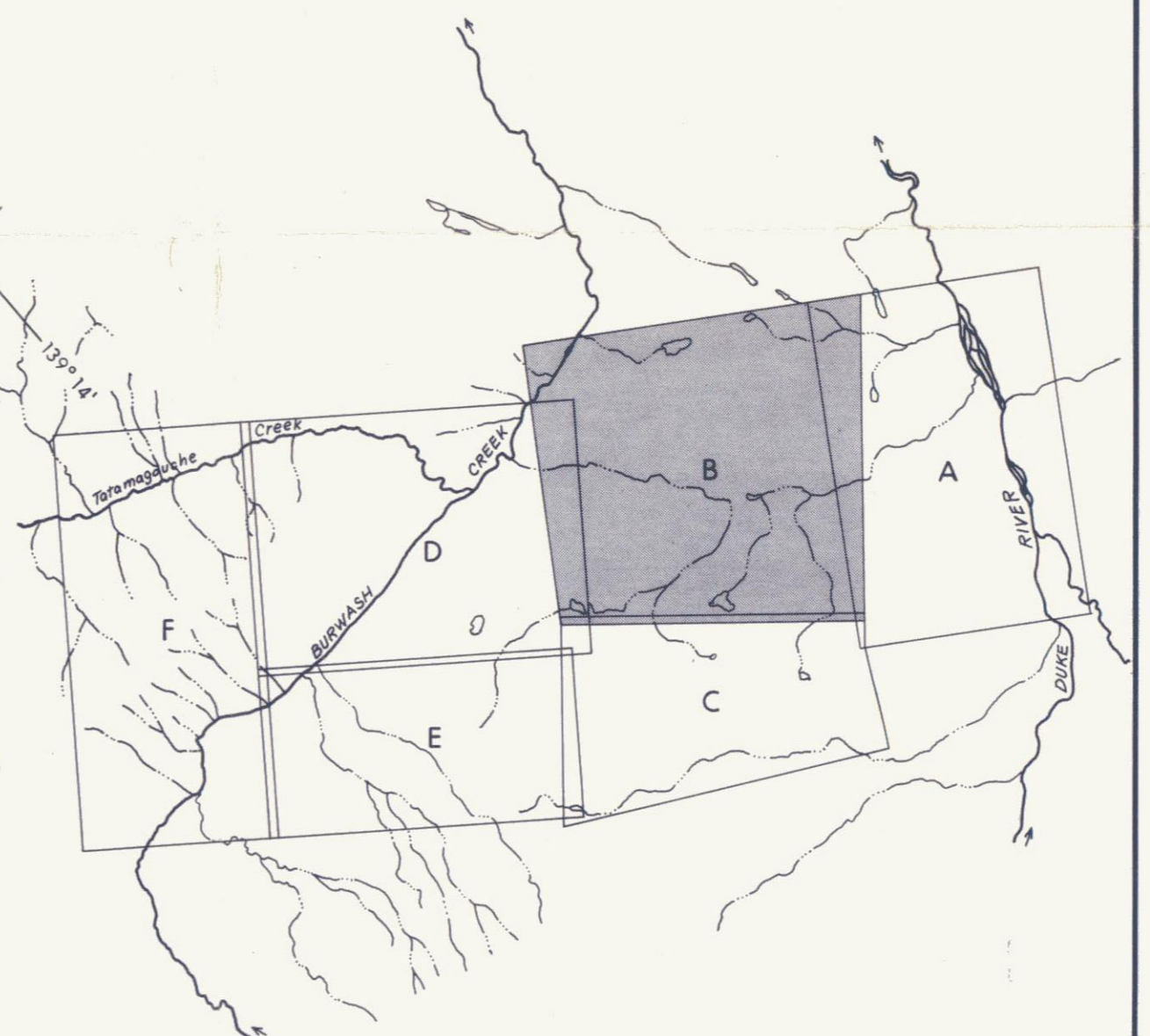
BURWASH CREEK AREA, YUKON

LBH SCALE: 1:5000 1984 10



LEGEND  
See Fig. 5-4

- SYMBOLS**
- Geological boundary, defined
  - Geological boundary, defined approximate
  - Area of outcrop
  - Isolated outcrop
  - Strike and dip of bedding



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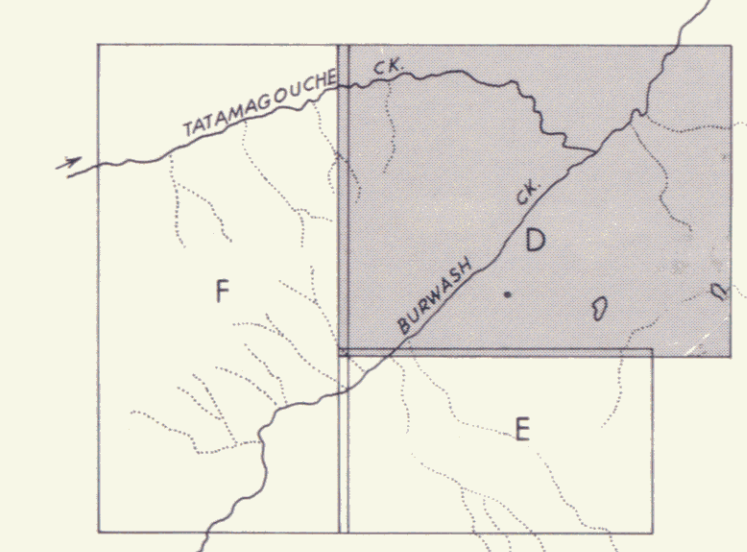
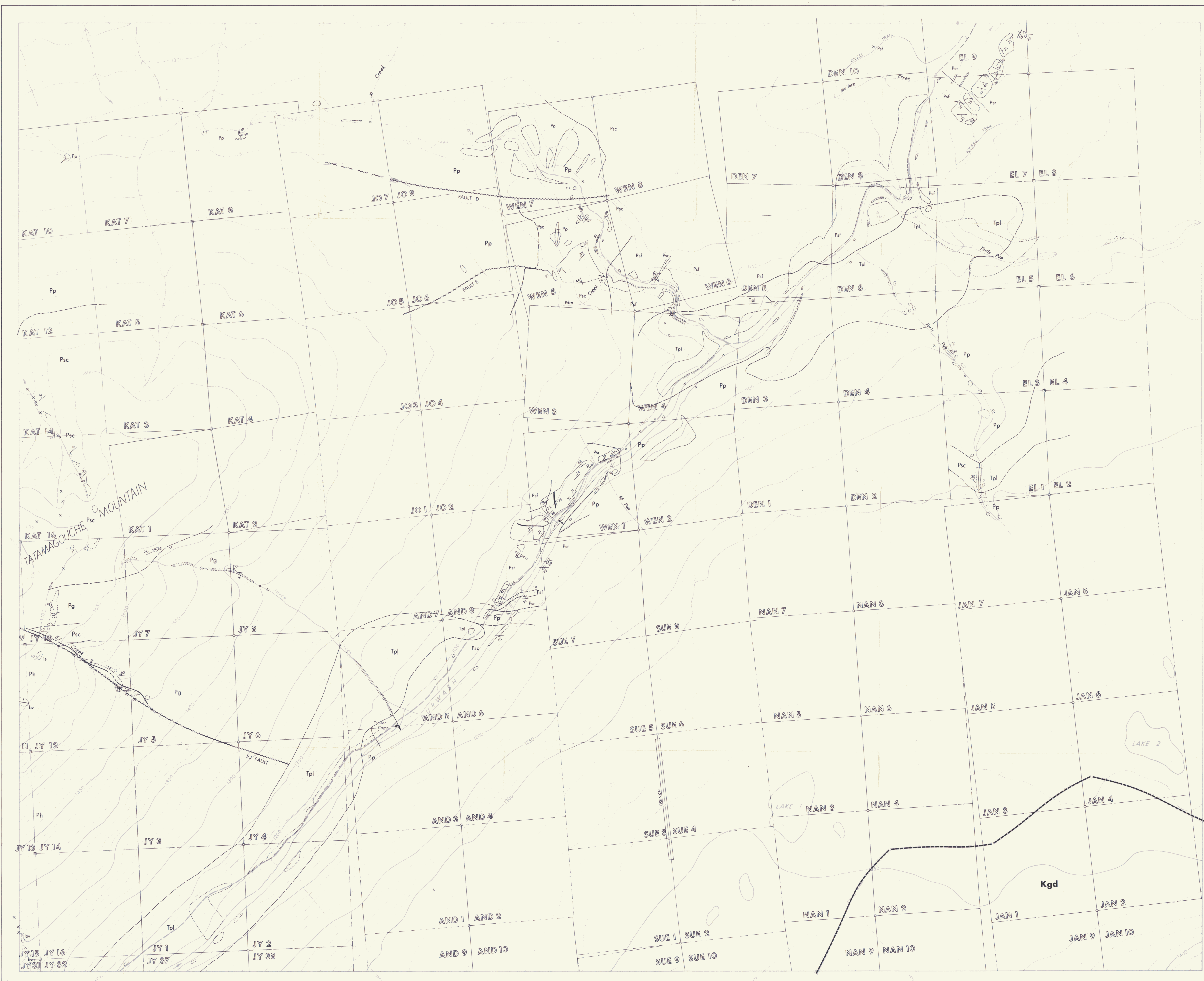
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BY	DATE
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Fig. 2-2 Geology of Map Sheet B

**BURWASH CREEK AREA, YUKON**

0 100 200 300 400 500 METRES  
 LBH SCALE: 1:5000 1984.10



- LEGEND**
- TERTIARY**  
Paleocene  
[ Tpl ] Late porphyry
- CRETACEOUS**  
[ Kgd ] Granodiorite
- UPPER TRIASSIC**  
[ Tr ] Nikolai Formation: basalt; cgl - conglomerate
- PERMIAN-TRIASSIC**  
[ Pp ] Peridotite [ Pg ] Gabbro
- LOWER PERMIAN**  
Skeletal Group  
Hasen Creek Formation  
[ Ph ] Main Member: argillite; r - rusty weathering argillite; ch - chert; ls - limestone
- Station Creek Formation**  
[ Psc ] Volcanic Member  
[ Pgf ] Volcanic Flow Member  
[ Pgr ] Rust Member

- SYMBOLS**
- Geological boundary, defined .....  
Area of outcrop, approximate .....  
Isolated outcrop .....  
Strike and dip of bedding .....  
Strike and dip of schistosity .....  
Strike and dip of joint .....  
Strike and plunge of lineation .....  
Fault, defined .....  
Road, unimproved .....  
Contour line, interval 10 metres .....  
Spot elevation in metres .....  
Claim post .....  
Claim boundary, location line .....  
other .....  
Claim name ..... WEN 3  
Abandoned adit .....  
Anticlinal axis .....  
Basic dyke

Claim posts and claim boundaries are only approximate.

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REVISIONS	INITIALS	DATE
BH	1980.08	
LBH	1981.04	
DBN	1981.11	
LBH	1984.10	
LBH	1985.12	

Fig. 2-3 Geology of Sheet D.

BURWASH & TATAMAGOUCHE CREEKS, Y.T.

SCALE: 1:5000

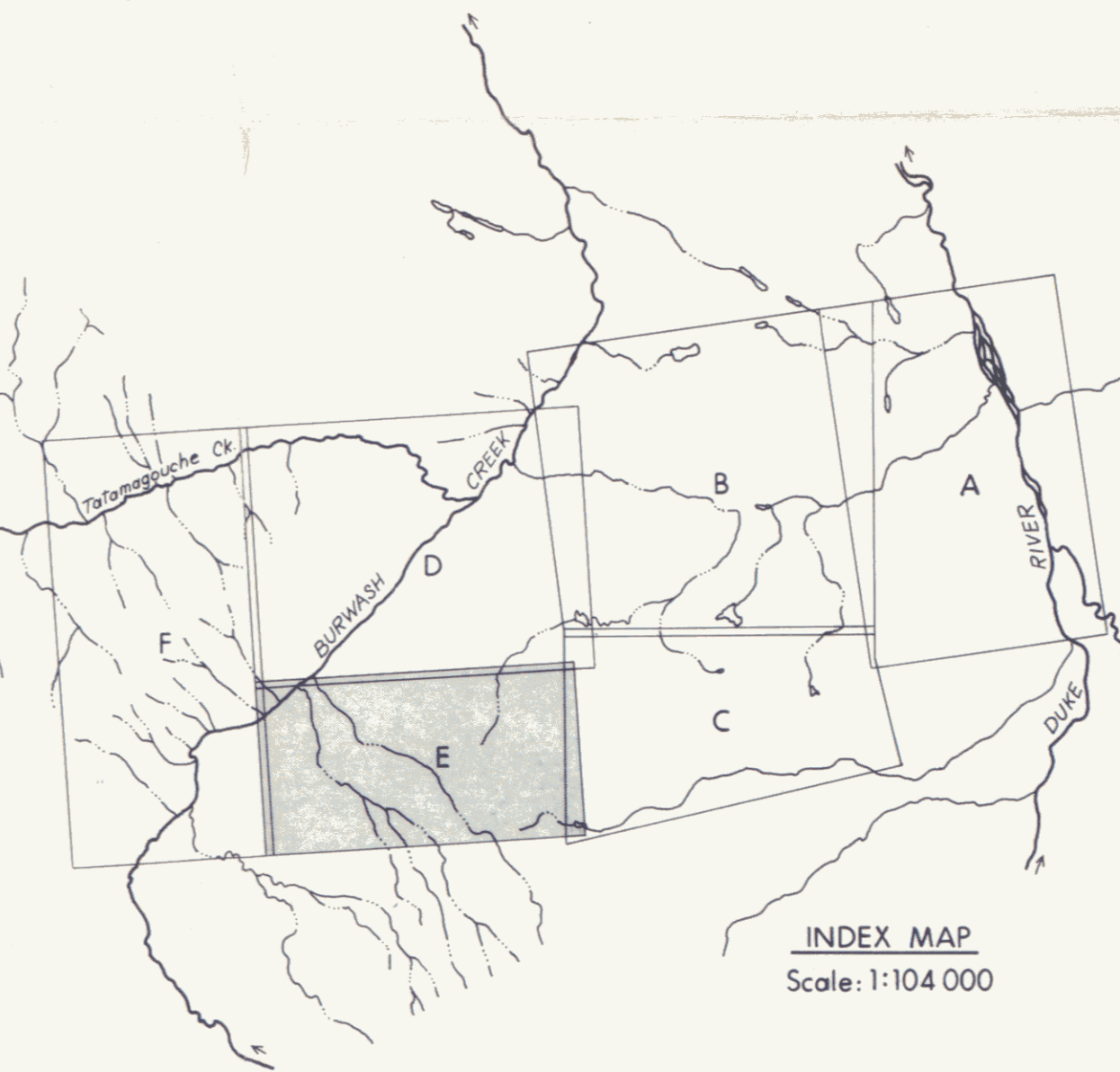
RB 1979.08



**SYMBOLS**

- Geological boundary (defined, approximate) . . . . .
- Outcrop . . . . . x
- Strike and dip of bedding, schistosity, joint . . . . .

Positions of claimposts are only approximate.



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REVISIONS	
BY	DATE

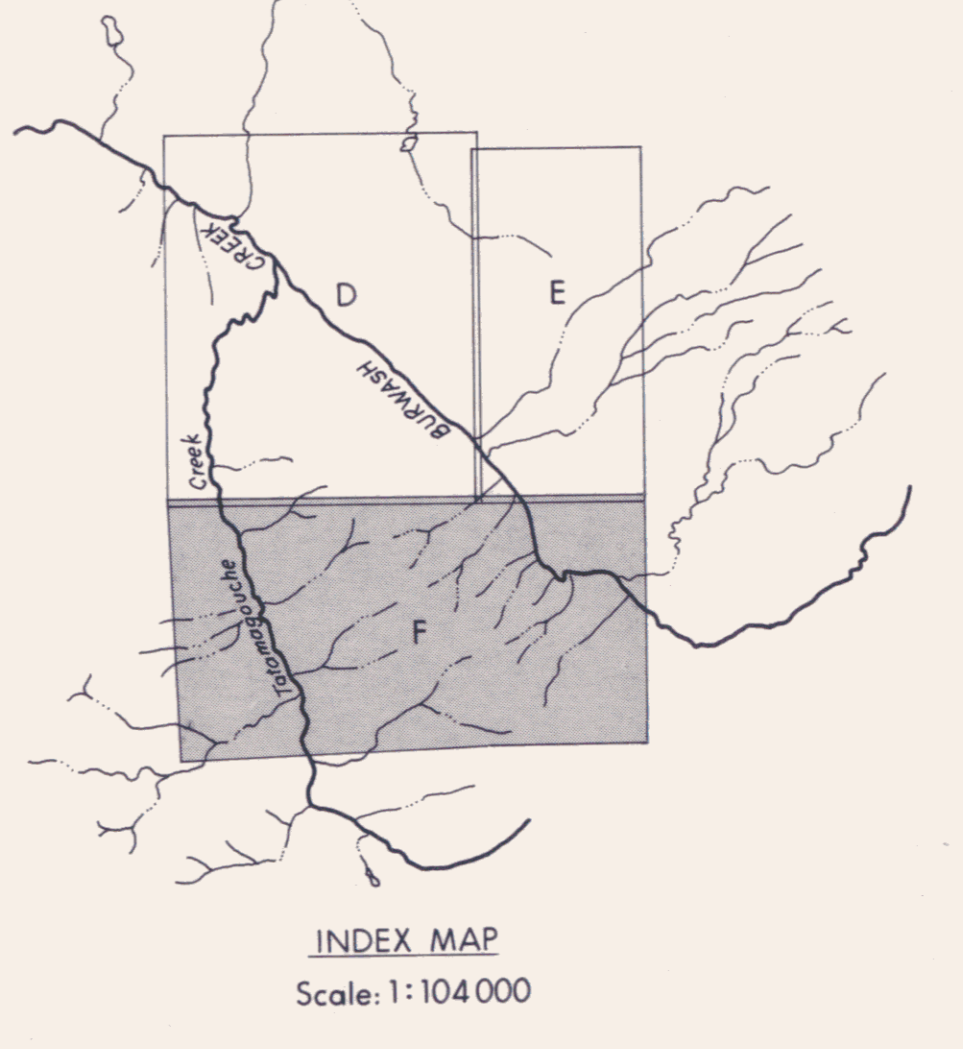
Fig. 2.4 Geology of Sheet E.

BURWASH CREEK AREA, YUKON

SCALE: 1:5000 1985.10



- LEGEND**
- TERTIARY**  
Paleocene  
[Pl] Lignite porphyry
- CRETACEOUS**  
[Kg] Granodiorite
- UPPER TRIASSIC**  
[Tr] Nikolai Formation: basalt, conglomerate - cgl
- PERMIAN-TRIASSIC**  
[Ps] Peridotite [Gb] Gabbro
- LOWER PERMIAN**  
Skolai Group  
[Ph] Hasen Creek Formation: argillite - a, rusty weathering argillite - r, basic volcanics - bv, agglomerate - ag, tuff - t, dark tuff - td, chert - ch, limestone - ls, light tuff - lt, chert granule limestone - ch-ls, black pyritic tuff - pbr
- [Pc] Station Creek Formation  
[Vol] Volcanic Member  
[Vf] Volcanic Flow Member  
[Ru] Rust Member
- SYMBOLS**
- Geological boundary, defined .....  
approximate .....  
Area of outcrop .....  
Isolated outcrop .....  
Strike and dip of bedding .....  
Fault (defined, approximate) .....  
Diamond drillhole with number .....  
Claim post .....  
Anticlinal axis .....  
Synclinal axis .....



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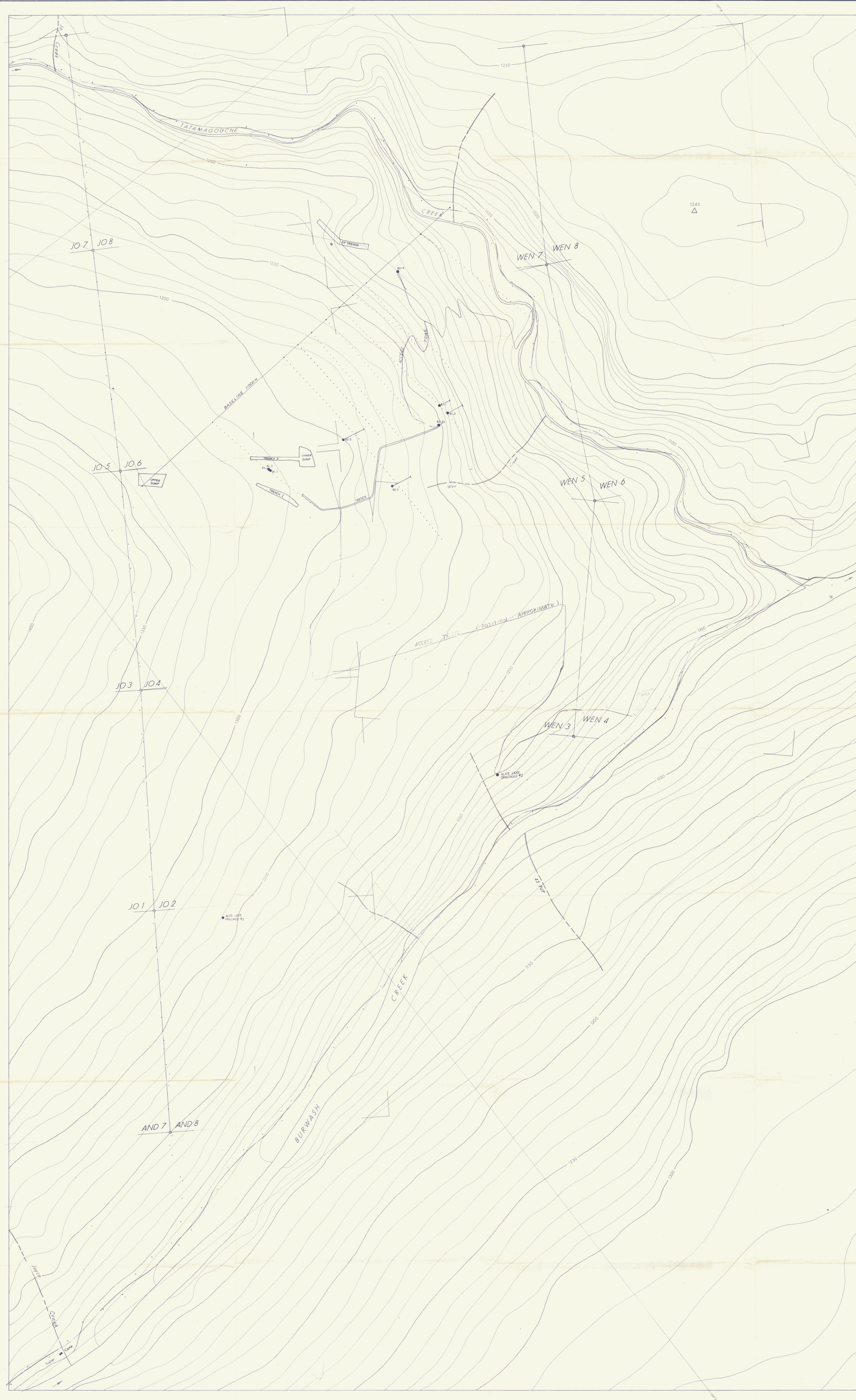
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REVISIONS	
BY	DATE
LBH	1984.10
LBH	1985.10

Fig. 2-5 Geology of Map Sheet F

BURWASH CREEK AREA, YUKON

SCALE: 1:5000 1984.04



**SYMBOLS**

- Fault, defined ..... ~~~~~
- ..... interpreted
- Trench, excavation ..... [Symbol]
- Drillhole with number and projection ..... [Symbol]
- Claim post ..... [Symbol]
- Claim line, location line ..... [Symbol]
- ..... other
- Claim name ..... WEN 5
- Contour (interval 10 m) ..... [Symbol]
- Road, unimproved ..... [Symbol]

**NOTES**

Locations of claim posts, claim lines, trenches, and drillholes were located approximately with compass and topographical chain.

**Diamond drillholes**

No.	Distance (m)	From	No. 1 Plan Job #	Bearing	Depth
81-1	14.0	317	129*	—	Went
81-2	23.2	316	128.5*	220°	60"
81-3	90.6	275	138.5*	—	Went
81-4	73.7	311	94*	—	Went
81-5	69.5	679	101°	102°	60"
82-1	67.8	676	116.5*	102°	60"
82-2	139.6	468	30.2*	102°	70"
82-3	85.3	566	41.2*	102°	60"
85-3	76.2	645	120°	93°	65"
85-4	173.7	740	92.4*	165°	55"

Contours are based on aerial photographs without survey control. Lines surveyed subsequently show some discrepancies with contours.

**REVISIONS**

BY	DATE	BY	DATE
L B H	1983-09		
L B H	1984-10		
L B H	1985-12		

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Fig. 2-6 Locations of Trenches, Sumps, and Drillholes near Tatamagouche Canyon

APPENDIX 1: LITHOLOGICAL LOGS FOR DIAMOND DRILLHOLES  
85-1, 85-2, 85-3, AND 85-4

Company: Tatam Resources Inc.  
 Drillhole: 85-1  
 Azimuth: 15°  
 Inclination: -70° at collar  
 Length: 101.96 m  
 Core recovered: 88.73 m, 89.7%  
 Core Size: NQ

Property: Bur  
 Location: on spur SW of Fork of Johnson  
 Creek, Claim Jy 58  
 Coordinates: in trench J at 228 m  
 Elevation: 1653 m (from 1:5000 topo map)  
 Drilled: 1985 09 01 to 1985 09 06  
 Drilled by Kluane Drilling Ltd.  
 Logged and split by L.B. Halferdahl

Purpose: To attempt to locate the high-grade source which produced anomalous gold concentrations in the core of IOE drillhole 70-6 and trench J.

Note: Lost core arbitrarily assigned to bottom of run unless indicated differently.

Metrage	Interval	Description
0.00- 3.27	3.27	<u>Overburden</u> 0.00-3.05 m cased 3.05-3.12 m probably boulders: one fragment of latite porphyry, another of wormy tuff 3.12-3.27 m 0.15 m lost core
3.27- 3.90	0.63	<u>Basic volcanic</u> (or tuff?), dark-grey, feldspar crystals to 4 mm in mosaic of whitish and greenish grains mostly about ½ mm in size, up to 10% disseminated pyrite in grains to 1 mm in size, pyrite and magnetite along some fractures, irregularly mottled with whitish chert-like material
3.90- 4.00	0.10	<u>Fault?</u> dark-grey altered rock fragments to 4 mm in yellow-green-grey clay 3.96-4.00 m 0.04 m lost core
4.00- 29.98	25.98	<u>Basic volcanics</u> , less pyrite than 3.27-3.90 m but disseminated throughout 4.17 m white vein 6 mm wide at 15°CA 4.39 m 2-cm wide irregular greyish-white magnetic band at 78°CA 4.32-4.48 m longitudinal whitish vein 12 mm wide 4.89-5.18 m irregular light-grey chert-like masses with magnetite 5.18-6.56 m magnetic, abundant to sparse disseminated pyrite, partly rounded feldspar crystals to 10 mm in size, some partly or completely euhedral

Company: Tatam Resources Inc.  
Drillhole: 85-1

Property: Bur  
Page: 2

Metrage	Interval	Description
	5.64 m	irregular white cherty band with magnetite to 6 mm thick at 60°CA
	6.08 m	irregular masses of quartz, pyrite, epidote, and magnetite
	6.58-6.69 m	0.11 m lost core
	6.69-8.23 m	magnetic, copious pyrite on some fracture surfaces
	7.75 m	abundant irregular masses of pyrite in layer at 60°CA
	8.62 m	irregular masses of pyrite, epidote, and magnetite in chert-like matrix
	8.69-8.85 m	0.16 m lost core
	8.95-9.13 m	irregularly fractured
	9.13-10.36 m	feldspar? phenocrysts more prominent, sulfides sparse, magnetic as before
	10.18-10.36 m	irregularly broken with rust on fracture surfaces
	10.36-10.46 m	0.10 m lost core
	10.46-11.28 m	locally mottled with grey cherty masses with disseminated pyrite and rimmed by magnetite, elsewhere only sparse disseminated pyrite, locally brecciated and healed, some fractures coated with ½ mm orange-brown calcite
	11.07-11.19 m	core all fractured and coated with abundant rust
	11.28-12.84 m	porphyritic, magnetic, locally abundant chert, magnetite, and pyrite
	11.28-11.76 m	fracture along CA
	11.78-11.94 m	broken and coated with rust
	12.84-14.27 m	magnetic as above, up to 10% pyrite disseminated and along fractures
	13.00 m	prominent quartz vein at 45°CA
	13.21 m	minor chalcopyrite
	13.33 m	quartz vein 2-3 mm wide at 38°CA
	13.48-14.27 m	fine-grained without phenocrysts
	13.71-14.27 m	pyrite mostly sparse but locally more abundant
	14.05 m	fault?, brecciated with clay on fragments
	14.27-14.33 m	0.06 m lost core

Company: Tatam Resources Inc.  
Drillhole: 85-1

Property: Bur  
Page: 3

Metrage	Interval	Description
	14.33-15.96 m	greenish-grey, grain size to 1 mm mostly less, pyrite in patches and disseminated locally abundant
	14.33-14.63 m	numerous white quartz veins with magnetite and sulfides
SAMPLE 5451	13.45-14.77 m	1.26 m Au 32 ppb, Cu 985 ppm, Mo 59 ppm, Pb 6 ppm, Zn 34 ppm
	15.96-17.52 m	magnetite in irregular patches and veins
	16.07 m	2-cm wide band of greyish white chert at 45 <sup>o</sup> CA with disseminated pyrite, and with pyrite and magnetite along stringers
	16.71 m	1-cm band of greyish white chert with magnetite and pyrite
	17.06 m	few specks of disseminated chalcopyrite
	17.24 m	1-cm band of greyish chert at 45 <sup>o</sup> CA with magnetite and pyrite
	17.49 m	1-2 cm band of greyish chert at 80 <sup>o</sup> CA
	17.52-19.13 m	local irregular blotches of whitish-grey chert with magnetite and pyrite
	17.86-17.94 m	altered and fractured
	18.15 m	1-cm wide band of grey-white chert at 45 <sup>o</sup> CA with magnetite and pyrite
	18.39-18.42 m	altered rubble
	18.42 m	fracture at 60 <sup>o</sup> CA
	18.72 m	2-cm wide white quartz vein at 30 <sup>o</sup> CA with disseminated pyrite and magnetite
	18.98-19.13 m	10-15% whitish feldspar grains
	19.13-20.73 m	prominent quartz veins with small amounts of disseminated chalcopyrite
	19.85 m	quartz vein 2-3 cm wide at 25 <sup>o</sup> CA with pyrite, magnetite, and minor chalcopyrite
	20.00-20.17 m	rubble
	20.48 m	quartz vein 3 cm wide with irregular borders, magnetite, pyrite, and chalcopyrite
SAMPLE 5452	19.13-20.53 m	1.40 m Au 289 ppb, Cu 1320 ppm, Mo 84 ppm, Pb 7 ppm, Zn 49 ppm

Company: Tatam Resources Inc.  
Drillhole: 85-1

Property: Bur  
Page: 4

Metrage Interval	Description
20.73-21.13 m	pyrite, with 10% whitish feldspar crystals to 2 mm in size
21.13 m	irregular quartz-rich band with pyrite and magnetite averaging about 50°CA
21.23 m	2-3 cm quartz-rich layer at 50°CA with pyrite and magnetite, altered below
21.29-21.50 m	brecciated and veined
21.63 m	prominent rusty fracture at 18°CA
21.78-21.90 m	brecciated with white calcite cement filling voids, other white calcite veins
21.90 m	rusty fracture at 17°CA
22.05 m	calcite vein 2 mm wide at 10°CA
22.06-22.26 m	local irregular quartz or cherty masses with pyrite and magnetite
22.26-23.79 m	magnetic, fewer veins, pyrite sparsely disseminated in basic lava, somewhat more pyrite and possible odd grain of chalcopyrite below 23.00 m
22.97-23.00 m	altered rusty rubble
23.00 m	rusty fracture at 45°CA
23.79-25.36 m	less pyrite
24.39 m	becoming coarser grained downhole somewhat resembling section uphole with feldspar phenocrysts
24.59 m	prominent white laminae at 40°CA
25.36-26.94 m	feldspar phenocrysts prominent, sulfides fairly sparse
26.35-26.42 m	fragments coated with moderate rust, less fractured downhole
26.66-26.94 m	numerous rusty joints result in core fragments to 3-4 cm in size
27.06 m	band of grey quartz or chert 2-3 cm wide at 40°CA with abundant pyrite
27.29 m	5-6 cm band of white quartz at 40°CA, with pyrite and magnetite
27.34 m	rust-coated fracture at 55°CA
27.34-27.44 m	other rust-coated fractures, subhedral feldspar shapes to 3 mm composed of aggregates of fine grains

Company: Tatam Resources Inc.  
Drillhole: 85-1

Property: Bur  
Page: 5

Metrage	Interval	Description
		27.67-27.84 m fragments to 5-6 cm in size with rust coatings on surface and seams of clay probably from alteration
		28.28-28.48 m finer-grained
		28.48-30.06 m magnetic, fine-grained, disseminated pyrite, few blobs of magnetite
		28.83-28.91 m fragments to 2-3 cm with rust on surfaces
		28.88 m white quartz vein at 35°CA with blobs of magnetite and pyrite
		28.93 m vein and alteration 1 cm wide at 62°CA, irregular wisps of magnetite below, becoming finer grained downhole
		29.46 m narrow magnetite bands at 35°CA
		29.63-29.98 m fine-grained, 10% or more finely disseminated magnetite
		29.98 m core broken at contact - possibly at 58°CA
29.98- 30.87	0.89	<u>Tuff</u> , light-grey to white, cherty, 10-15% magnetite wisps 1-2 mm wide by up to 6-8 cm long at 40°CA, some with pyrite and sparse chalcopyrite 30.11 m 4-cm mass of dark-grey fine-grained volcanic with disseminated pyrite 30.87 m contact at 32°CA SAMPLE 5453 29.98-30.87 m 0.89 m Au 130 ppb, Cu 1365 ppm, Mo 98 ppm, Pb 1 ppm, Zn 39 ppm
30.87- 31.94	1.07	<u>Basic volcanics</u> , dark-grey, fine-grained, slightly magnetic but more so along fractures, up to 5-10% disseminated pyrite also in blobs to 4 mm, odd bit of malachite stain, few whitish blobs to 2 cm in size 31.82-31.94 m altered and veined with malachite along fractures, prominent vein at 25°CA SAMPLE 5454 31.82-31.96 m 0.14 m Au 101 ppb, Cu 1510 ppm, Mo 89 ppm, Pb 1 ppm, Zn 70 ppm
31.94- 42.23	10.29	<u>Tuff</u> 31.94-32.09 m light-grey grading to greyish-white, cherty, pyrite and magnetite along fractures

Company: Tatam Resources Inc.  
Drillhole: 85-1

Property: Bur  
Page: 6

Metrage	Interval	Description
	32.09-33.14 m	whitish silicified tuff with local remnants of unsilicified or only partly silicified greyish tuff remaining, up to 5 or 10% pyrite sparsely disseminated and along fractures, gypsum along fractures, periodic dark laminae at 20°CA, bleaching and silicification decreasing downhole apparently with more pyrite in less bleached greyer parts
	32.30 m	banding (bedding?) at 22°CA
SAMPLE 5455	31.94-33.14 m	1.20 m Au 62 ppb, Cu 349 ppm, Mo 77 ppm, Pb 1 ppm, Zn 26 ppm
	33.14-34.35 m	as above, banding at 26°CA, sparse pyrite
	33.48 m	prominent contact between grey tuff above and buff-white below at 20°CA
SAMPLE 5456	33.14-34.35 m	1.21 m Au 31 ppb, Cu 132 ppm, Mo 62 ppm, Pb 9 ppm, Zn 41 ppm
	34.35-35.12 m	partly silicified grey and completely silicified white, some partly oxidized to buff-white, sparse pyrite, few stringers with magnetite, some fracture surfaces quite rusty, indistinct shards on diamond-cut surface (see tuff at 43.88 m)
SAMPLE 5457	34.35-35.12 m	0.77 m Au 55 ppb, Cu 102 ppm, Mo 15 ppm, Pb 4 ppm, Zn 13 ppm
	35.12-35.51 m	0.39 m lost core
	35.51-36.95 m	mostly whitish silicified, cherty, few sections partly silicified and grey with minor disseminated pyrite, rust specks, odd stringer of magnetite, shards?
SAMPLE 5458	35.51-36.58 m	1.07 m Au 31 ppb, Cu 111 ppm, Mo 14 ppm, Pb 3 ppm, Zn 13 ppm
	36.95-37.05 m	0.10 m lost core
	37.05-38.10 m	similar to above with greater proportion of greyish less silicified tuff, shards?
SAMPLE 5459	36.58-37.10 m	1.42 m Au 31 ppb, Cu 122 ppm, Mo 35 ppm, Pb 7 ppm, Zn 14 ppm
	38.10-38.39 m	partly and completely bleached and silicified, cherty, finely disseminated pyrite, shards?
	38.39-38.87 m	0.48 m lost core
	38.87-40.39 m	similar to 38.10-38.39 m

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Metrage	Interval	Description
		SAMPLE 5460 38.10-40.08 m 1.50 m Au 42 ppb, Cu 76 ppm, Mo 7 ppm, Pb 1 ppm, Zn 14 ppm
		40.06-40.59 m bright hematite-reddish staining along fractures and in blobs
		40.59-40.93 m 0.34 m lost core (possible fault)
		40.93-41.26 m crumbly (brecciated? or altered), rusty-brown, sandy, minor hematite-red
		SAMPLE 5461 40.08-41.26 m 0.84 m Au 72 ppb, Cu 100 ppm, Mo 18 ppm, Pb 1 ppm, Zn 14 ppm
		41.26-41.70 m partly bleached and silicified as above but not as altered, much rusty-brown along fractures
		41.70-42.06 m bleached and partly bleached, cherty, as above, crumbly thin laminae at 25 <sup>o</sup> CA
		42.06-42.23 m white and grey silicified, partly altered to brown
		42.23 m contact at 80 <sup>o</sup> CA
		SAMPLE 5462 41.26-42.23 m 0.97 m Au 60 ppb, Cu 233 ppm, Mo 33 ppm, Pb 1 ppm, Zn 17 ppm
42.23- 43.88	1.65	<u>Basic volcanics</u> , non-magnetic in upper part slightly magnetic in lower part, variable amounts of pyrite to 10% locally disseminated and along fractures
		43.46-43.59 m 4-5 cm band of white tuff at 22 <sup>o</sup> CA
		43.88 m gradational contact at 35 <sup>o</sup> CA
43.88- 46.53	2.65	<u>Tuff</u> , whitish, cherty, irregular bleaching extending from fractures, disseminated pyrite and in fractures, few larger masses of pyrite, some fractures rusty, numerous curved shard-like marks visible on diamond-cut surface, gypsum on some fractures
		SAMPLE 5463 43.88-45.11 m 1.23 m Au 31 ppb, Cu 96 ppm, Mo 29 ppm, Pb 1 ppm, Zn 22 ppm
		SAMPLE 5464 45.11-46.53 m 1.42 m Au 17 ppb, Cu 63 ppm, Mo 52 ppm, Pb 3 ppm, Zn 26 ppm
46.53- 89.00	42.47	<u>Tuff</u> , mostly wormy medium-grey, fine-grained

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Metrage	Interval	Description
	46.53-46.63 m	not typical wormy tuff, spots not prominent, rusty fractures
	46.63-47.11 m	spots not prominent until 47.03 m, 2-3% finely disseminated pyrite, pyrite along fractures and laminae at about 25°C, gypsum on fractures
	47.11-47.33 m	medium-grey shard tuff as 43.88-46.53 m, blotches to 3-4 cm, bleached almost white with few clumps of pyrite, cherty, minor hematite-red stain
	47.33-48.15 m	wormy again but not typical as spots not obvious, local sections irregularly bleached white or greyish white, 1-2% disseminated pyrite and along fractures
SAMPLE 5465	46.53-48.15 m	1.62 m Au 18 ppb, Cu 77 ppm, Mo 8 ppm, Pb 1 ppm, Zn 22 ppm
	48.15-48.39 m	0.24 m lost core
	48.39-49.38 m	spots not well developed - most resemble whitish feldspar crystals in grey matrix but locally better, generally sparse pyrite, few volcanic clasts to 3 cm with some sulfides, locally black and cherty
SAMPLE 5466	48.39-49.38 m	0.99 m Au 18 ppb, Cu 57 ppm, Mo 7 ppm, Pb 1 ppm, Zn 20 ppm
	49.38-50.91 m	fairly typical wormy tuff, pyrite along laminae at 30°C, local magnetite stringers along fractures
	50.48-50.58 m	brecciated and healed with white quartz, locally dark-grey and cherty
SAMPLE 5467	49.38-50.91 m	1.53 m Au 22 ppb, Cu 137 ppm, Mo 23 ppm, Pb 1 ppm, Zn 27 ppm
	50.91-51.07 m	pyrite veins 1-2 mm thick with adjacent white bleaching, rust on fractures, disseminated pyrite
	51.07-51.47 m	almost all bleached, pyrite more abundant along fractures
	51.47-51.74 m	locally magnetic
	51.74-52.51 m	moderate sized bleached areas, local pods of pyrite and streaks of magnetite
SAMPLE 5468	50.91-52.51 m	1.60 m Au 35 ppb, Cu 70 ppm, Mo 14 ppm, Pb 1 ppm, Zn 22 ppm
	52.51-53.41 m	slightly magnetic with odd clot of magnetite and pyrite, sparsely disseminated pyrite
	53.41-53.60 m	extremely bleached

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Metrage	Interval	Description
	53.66-54.03 m	extremely bleached
SAMPLE 5469	52.51-54.03 m	1.52 m Au 18 ppb, Cu 90 ppm, Mo 10 ppm, Pb 1 ppm, Zn 22 ppm
	54.03-54.10 m	0.07 m lost core
	54.10-55.63 m	some extremely bleached laminae? at 35 <sup>o</sup> CA, some bleached sections with 10% pyrite
SAMPLE 5470	54.10-55.63 m	1.53 m Au 10 ppb, Cu 51 ppm, Mo 6 ppm, Pb 1 ppm, Zn 16 ppm
	55.63-57.15 m	some bleached areas, minor disseminated pyrite, few streaks of magnetite, laminae at 22 <sup>o</sup> CA
	55.90-55.94 m	altered and crumbly, extensively bleached below
SAMPLE 5471	55.63-57.15 m	1.52 m Au 24 ppb, Cu 48 ppm, Mo 31 ppm, Pb 5 ppm, Zn 15 ppm
	57.15-58.70 m	areas of extensive bleaching, few clots of pyrite along fractures but pyrite mostly sparse, clots of magnetite, laminae at 30 <sup>o</sup> CA
SAMPLE 5472	57.15-58.70 m	1.55 m Au 21 ppb, Cu 55 ppm, Mo 20 ppm, Pb 1 ppm, Zn 22 ppm
	58.70-59.34 m	light-grey, more like shard tuff than wormy tuff, extensive bleached areas, contact between grey and bleached buff at 18 <sup>o</sup> CA, pyrite disseminated and along fractures
	59.34-60.73 m	1.39 m lost core
	60.73-61.66 m	as 58.70-59.34 m
SAMPLE 5473	58.70-61.66 m	1.57 m Au 34 ppb, Cu 105 ppm, Mo 32 ppm, Pb 1 ppm, Zn 20 ppm
	61.66-63.15 m	grading from grey shard-like tuff above to wormy tuff, extensive bleaching, sparse disseminated pyrite with more along fractures, laminae at 20 <sup>o</sup> CA
	62.35 m	8-mm wide veinlet of magnetite at 35 <sup>o</sup> CA in mostly bleached tuff
	62.56-62.76 m	altered and crumbly
	62.81 m	irregular magnetite vein; other irregular veins with magnetite and pyrite downhole
SAMPLE 5474	61.66-63.15 m	1.49 m Au 47 ppb, Cu 161 ppm, Mo 11 ppm, Pb 1 ppm, Zn 20 ppm

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Metrage	Interval	Description
	63.15-64.77 m	few intervals of distinct wormy tuff but mostly bleached with sparse pyrite, some greyish, laminae at 25 <sup>o</sup> CA, odd fracture with 3-4 mm fibrous gypsum, locally abundant pyrite both disseminated and along fractures, few stringers and spots of magnetite
SAMPLE 5475	63.15-64.77 m	1.62 m Au 29 ppb, Cu 67 ppm, Mo 16 ppm, Pb 1 ppm, Zn 18 ppm
	64.77-66.35 m	mostly bleached, disseminated pyrite more abundant, some along fractures associated with a green mineral (chlorite?)
	64.95-65.14 m	considerable rust along fractures
SAMPLE 5476	64.77-66.35 m	1.58 m Au 37 ppb, Cu 90 ppm, Mo 11 ppm, Pb 2 ppm, Zn 19 ppm
	66.35-67.89 m	typical wormy with bleached sections, disseminated pyrite with odd spect of malachite, laminae at 28 <sup>o</sup> CA and 22 <sup>o</sup> CA
SAMPLE 5477	66.35-67.89 m	1.54 m Au 36 ppb, Cu 82 ppm, Mo 10 ppm, Pb 1 ppm, Zn 19 ppm
	67.89-69.17 m	as above wormy and bleached, locally with abundant disseminated pyrite and clots to 3 cm, pyrite also along fractures, laminae at 20 <sup>o</sup> CA
	69.17-69.34 m	0.17 m lost core
	69.34-69.49 m	same as 67.89-69.17 m
SAMPLE 5478	67.89-69.49 m	1.43 m Au 25 ppb, Cu 54 ppm, Mo 16 ppm, Pb 2 ppm, Zn 18 ppm
	69.49-69.62 m	not wormy, whitish, cherty, very hard, some greyish
	69.62-70.58 m	0.96 m lost core
	70.58-70.71 m	same as 69.49-69.62 m and fragments of wormy tuff
SAMPLE 5479	69.49-70.71 m	0.26 m Au 20 ppb, Cu 78 ppm, Mo 12 ppm, Pb 1 ppm, Zn 26 ppm
	70.71-72.26 m	wormy with extensive bleached masses with disseminated pyrite, laminae at 30 <sup>o</sup> CA
SAMPLE 5480	70.71-72.26 m	1.55 m Au 67 ppb, Cu 77 ppm, Mo 11 ppm, Pb 1 ppm, Zn 21 ppm

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Metrage	Interval	Description
	72.26-73.46 m	as above; some bleached masses bounded from wormy masses by laminae at 35 <sup>o</sup> CA, few clots of pyrite to 2 cm associated with chlorite
SAMPLE 5481	72.26-73.46 m	1.20 m Au 28 ppb, Cu 111 ppm, Mo 9 ppm, Pb 1 ppm, Zn 20 ppm
	73.46-74.94 m	mostly bleached with few pyrite stringers, some wormy tuff, laminae at 42 <sup>o</sup> CA, pyrite finely disseminated and along fractures
SAMPLE 5482	73.46-74.94 m	1.48 m Au 64 ppb, Cu 158 ppm, Mo 21 ppm, Pb 1 ppm, Zn 23 ppm
	74.94-74.98 m	0.04 m lost core
	74.98-75.60 m	as above, much bleaching some with finely disseminated pyrite, locally brecciated, very sparse disseminated pyrite but locally more abundant particularly in sections of wormy tuff, magnetite streaks along fractures, laminae at 28 <sup>o</sup> CA
	75.60-75.68 m	0.08 m lost core
	75.68-76.58 m	as above
SAMPLE 5483	74.98-76.58 m	1.52 m Au 95 ppb, Cu 202 ppm, Mo 21 ppm, Pb 1 ppm, Zn 21 ppm
	76.58-78.05 m	wormy and bleached tuff, some with moderate pyrite and odd chalcopyrite along fractures, some with disseminated pyrite, odd stringer of magnetite, laminae at 33 <sup>o</sup> CA, locally fractured
SAMPLE 5484	76.58-78.05 m	1.47 m Au 58 ppb, Cu 158 ppm, Mo 10 ppm, Pb 1 ppm, Zn 22 ppm
	78.05-78.16 m	0.11 m lost core
	78.16-79.78 m	mostly wormy but with some irregular bleached areas, few stringers of magnetite, sparse pyrite both disseminated and along fractures, laminae at 40 <sup>o</sup> CA
	79.59-79.78 m	prominent rusty fractures
SAMPLE 5485	78.16-79.78 m	1.62 m Au 48 ppb, Cu 117 ppm, Mo 10 ppm, Pb 1 ppm, Zn 23 ppm
	79.78-80.42 m	wormy, odd mass of magnetite, bleaching along fractures many of which carry pyrite, some disseminated pyrite, odd clasts of whitish bleached tuff to 3-6 cm, few quartz veins with pyrite, chlorite, and magnetite
	80.42-80.68 m	0.26 m lost core

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Metrage	Interval	Description
	80.68-81.08 m	as above
SAMPLE 5486	79.78-81.08 m	1.04 m Au 32 ppb, Cu 133 ppm, Mo 6 ppm, Pb 7 ppm, Zn 26 ppm
	81.08-81.88 m	light-grey, wormy, up to 1% disseminated pyrite increasing up to 5% in lower two-thirds, fractures at various angles with white bleaching 1 mm or so on either side, some pyrite, some malachite staining in upper 10 cm, gypsum crystals on some fractures, minor calcite too, few lighter-colored masses to 2-3 cm with 2-4% or even 10% finely disseminated pyrite; much of pyrite seems related to fractures
	81.78 m	layering in wormy tuff at 40°CA
SAMPLE 5487	81.08-81.88 m	0.80 m Au 62 ppb, Cu 292 ppm, Mo 9 ppm, Pb 2 ppm, Zn 24 ppm
	81.88-81.99 m	0.11 m lost core
	81.99-84.10 m	typical wormy, less pyrite than above with more in bleached lighter-colored areas, magnetite along a few fractures, layering at 40°CA
SAMPLE 5488	81.99-83.56 m	1.57 m Au 22 ppb, Cu 218 ppm, Mo 12 ppm, Pb 1 ppm, Zn 24 ppm
	84.10-84.22 m	breccia: angular fragments to 5 cm of wormy tuff, bleached tuff, pyritic tuff, and fine-grained black pyritic tuff
	84.22-85.09 m	as 81.99-84.10 m
SAMPLE 5489	83.56-85.09 m	1.53 m Au 30 ppb, Cu 168 ppm, Mo 6 ppm, Pb 1 ppm, Zn 23 ppm
	85.09-86.63 m	wormy as above, bleaching to 2 mm wide along fracture at 45°CA with some pyrite, also disseminated pyrite, pyrite and bleaching considerably less in lower two-thirds of interval, minor malachite stain along fractures, well formed gypsum crystals along fractures
SAMPLE 5490	85.09-86.63 m	1.54 m Au 51 ppb, Cu 187 ppm, Mo 8 ppm, Pb 1 ppm, Zn 20 ppm
	86.63-86.92 m	mostly darker-grey than wormy tuff, chert-like, some crystallized, very sparse sulfides
	86.92-87.48 m	0.56 m lost core
	87.48-87.58 m	as 86.63-86.92 m

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Metrage	Interval	Description
	SAMPLE 5491 86.63-87.58 m	0.39 m Au 17 ppb, Cu 137 ppm, Mo 6 ppm, Pb 1 ppm, Zn 21 ppm
	87.58-88.28 m	wormy, some pyrite mostly along fractures, some sections with finely disseminated pyrite, bleached whitish for 1 mm or so adjacent to fractures, indistinct layering at 35 <sup>o</sup> CA in upper part, more distinct at 30 <sup>o</sup> CA in lower part
	88.28-88.39 m	0.11 m lost core
	88.39-88.83 m	similar to wormy tuff but spots not very obvious; somewhat darker-grey, some finely disseminated pyrite, indistinct layering at 30 <sup>o</sup> CA, some almost black and cherty with minor pyrite, abundant pyrite on one fracture surface
	SAMPLE 5492 87.58-88.83 m	1.14 m Au 46 ppb, Cu 200 ppm, Mo 35 ppm, Pb 1 ppm, Zn 27 ppm
	88.83-89.00 m	0.17 m lost core
89.00-101.96	12.96	<u>Tuff</u> , light-grey to white
	89.00-90.21 m	more pyrite than above
	89.25 m	bleached layer 3 cm thick at 46 <sup>o</sup> CA with irregular black magnetite in centre, other bleached masses below
	SAMPLE 5493 89.00-90.21 m	1.21 m Au 75 ppb, Cu 285 ppm, Mo 17 ppm, Pb 1 ppm, Zn 27 ppm
	90.21-90.22 m	0.01 m lost core
	90.22-91.14 m	disseminated pyrite, some also along fractures at many angles which are bleached whitish for 1-2 mm, few larger masses bleached white with few small masses of magnetite, layering at 42 <sup>o</sup> CA; lower fragmented section very finely crystallized without much bleaching or sulfides
	SAMPLE 5494 90.22-91.14 m	0.92 m Au 84 ppb, Cu 192 ppm, Mo 9 ppm, Pb 1 ppm, Zn 25 ppm
	91.14-93.42 m	2.28 m lost core
	93.42-93.49 m	similar to above, somewhat darker, partly slaty
	93.49-93.60 m	fault?, fractured, altered joints with brown coating, part brecciated
	93.60-93.69 m	fresh, darker-grey, 5% pyrite along abundant fractures
	93.67-93.69 m	healed breccia at 50 <sup>o</sup> CA

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Metrage	Interval	Description
SAMPLE 5495	93.42-93.69 m	0.27 m Au 111 ppb, Cu 500 ppm, Mo 38 ppm, Pb 1 ppm, Zn 39 ppm
	93.69-94.64 m	mostly bleached whitish with 5% pyrite and wisps of magnetite, few tiny golden-colored grains - chalcopyrite or tarnished pyrite, locally greyer and unbleached
SAMPLE 5496	93.69-94.64 m	0.95 m Au 97 ppb, Cu 580 ppm, Mo 15 ppm, Pb 1 ppm, Zn 34 ppm
	94.64-95.38 m	similar to above but bleaching less pervasive, odd grain of chalcopyrite with magnetite and pyrite
	95.02-95.24 m	0.22 m lost core
SAMPLE 5497	94.64-95.38 m	0.52 m Au 101 ppb, Cu 780 ppm, Mo 44 ppm, Pb 13 ppm, Zn 32 ppm
	95.38-96.01 m	more completely bleached with larger masses of pyrite and magnetite some associated with chlorite in light- grey to white matrix, odd bit of malachite along one fracture, pyrite and magnetite to 20% or more locally
	96.01 m	fault at 45°CA, slickensided surface with slickensides at 30° from horizontal line measured in fault plane
SAMPLE 5498	95.38-96.01 m	0.63 m Au 293 ppb, Cu 1030 ppm, Mo 83 ppm, Pb 2 ppm, Zn 48 ppm
	96.01-96.24 m	altered with magnetite stringers parallel to fault, fragments of medium-grey fine-grained tuff with sparse sulfides
	96.24-96.32 m	medium-grey, very sparse sulfides
	96.32-96.64 m	breccia: fragments of grey tuff 2-3 cm in size coated with gypsum
SAMPLE 5499	96.01-96.64 m	0.63 m Au 91 ppb, Cu 280 ppm, Mo 25 ppm, Pb 1 ppm, Zn 32 ppm
	96.64-97.51 m	grey locally with 1% disseminated pyrite, veined with adjacent bleaching to 2 mm or more locally with pyrite
	98.80 m	pyrite 2-3 mm along fracture
SAMPLE 5500	96.64-97.36 m	0.72 m Au 34 ppb, Cu 245 ppm, Mo 18 ppm, Pb 1 ppm, Zn 29 ppm
	97.36-97.51 m	more extensively and irregularly bleached with more and larger masses of pyrite and magnetite
	97.51-97.58 m	0.07 m lost core

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Metrage	Interval	Description
	97.58-97.69 m	fragments: dark-grey, fine-grained, crystallized, sparse disseminated pyrite; lighter-grey with pyrite along fractures
	97.69-97.66 m	light-grey, veined, partly bleached, pyrite and minor malachite along fractures, few magnetite wisps
	97.66-98.15 m	extensively bleached with wisps of magnetite, pyrite and sparse chalcopyrite along fractures
SAMPLE 5501	97.36-98.15 m	0.72 m Au 167 ppb, Cu 1450 ppm, Mo 57 ppm, Pb 1 ppm, Zn 36 ppm
	98.15-98.43 m	similar to above but extensively veined and fractured, not fresh
	98.43-98.60 m	fresh, not as much bleached or veined
	98.60-98.84 m	as previous but much fractured, sparse pyrite
	98.83-98.84 m	breccia cemented with brownish gypsum
	98.84-99.10 m	0.26 m lost core
	99.10-99.24 m	medium-grey, blobs of pyrite to 1 cm surrounded by 1-2 mm of bleaching
	99.24-99.33 m	fractured and brecciated with gypsum cement
	99.33-99.43 m	medium-grey, blobs of pyrite to 1 cm surrounded by 1-2 mm of bleaching, odd bit of malachite stain
	99.43-99.67 m	locally almost black and cherty, up to 20% bleached, veined, and brecciated
SAMPLE 5502	98.15-99.45 m	1.04 m Au 72 ppb, Cu 375 ppm, Mo 24 ppm, Pb 1 ppm, Zn 30 ppm
	99.67-99.89 m	extensively bleached, up to 20% pyrite in masses, considerable magnetite
	99.89-100.51 m	0.62 m lost core
	100.51-100.56 m	fresh, similar to above but less bleaching
SAMPLE 5503	99.45-100.56 m	0.50 m Au 497 ppb, Cu 2900 ppm, Mo 37 ppm, Pb 1 ppm, Zn 37 ppm
	100.56-101.04 m	altered and crumbly, brecciated, extensively bleached with masses of pyrite and wisps of magnetite similar to 99.67-99.89 m
SAMPLE 5504	100.56-101.04 m	0.48 m Au 208 ppb, Cu 2080 ppm, Mo 63 ppm, Pb 1 ppm, Zn 42 ppm

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Metrage	Interval	Description
	101.04-101.17 m	fresher, less bleached, pyrite, magnetite, and odd aggregate of chalcopyrite
	101.17-101.30 m	very crumbly : tuff, gypsum, and dried drilling mud; fault?
	101.30-101.85 m	0.55 m lost core
	101.85-101.96 m	hard, chert-like, medium-grey, minor bleaching confined to 1-2 mm along a few fractures, 1-2% pyrite mostly along fractures
	SAMPLE 5505	101.04-101.96 m 0.37 m Au 94 ppb, Cu 730 ppm, Mo 39 ppm, Pb 1 ppm, Zn 32 ppm
101.96	-	End of hole; caving, unable to drill farther

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 Azimuth: 15<sup>0</sup>  
 Inclination: -65<sup>0</sup> at collar  
 Length: 100.89 m  
 Core recovered: 93.77 m; 97.0%  
 Core Size: NQ

Property: Bur  
 Location: on spur SW of Fork of Johnson Creek  
 on Claim JY 51  
 Coordinates: beyond trench J at 408 m  
 Elevation: 1613 m (from 1:5000 topo map)  
 Drilled: 1985 09 08 to 1985 09 10  
 Drilled by Kluane Drilling Ltd.  
 Logged by M. Ince and J. Gorham

Purpose: To attempt to intersect the contact of latite porphyry with the intruded tuffs.

Note: Lost core arbitrarily assigned to each run according to character of core or at the bottom of the run.

Metrage	Interval	Description
0.00- 4.19	4.19	<u>Overburden</u>
4.19- 100.89	96.70	<u>Latite Porphyry</u>
	4.19-4.57 m	10-20% white feldspar phenocrysts to 3 mm in size, about 5% biotite phenocrysts to 2 mm in light-grey fine-grained matrix
	4.57-5.19 m	as above, few biotite phenocrysts 3 mm or more in size, cubic orange rust on fractures
	5.34 m	10-mm biotite phenocryst, magnetite blebs about 1 mm
	5.55-6.10 m	trace pyrite, trace magnetite
	6.10-6.74 m	minor blebs magnetite about 1 mm in size
	6.74-7.52 m	trace pyrrhotite and pyrite
	7.15-7.52 m	rubble strongly altered to orange clay along fractures
	8.20-8.50 m	some alteration of feldspar phenocrysts to orange clay
	8.50-8.84 m	highly altered rubble
	8.84-9.52 m	highly altered, soft, orange-brown
	9.52-9.66 m	0.14 m lost core
	9.66-11.28 m	moderately altered, generally soft, 2-5% biotite phenocrysts 1 mm in size, feldspar phenocrysts not evident, trace pyrite
	11.28-12.52 m	strongly altered, orange-brown soft
	12.52-12.80 m	0.28 m most core
	12.80-13.43 m	altered as above

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Metrage Interval	Description
13.43-13.67 m	0.24 m lost core
13.67-17.48 m	altered as above
17.48-18.96 m	not as altered
18.96-19.26 m	moderately altered feldspar phenocrysts, orange-brown, hard
19.26-20.09 m	moderately altered; 15 cm strongly altered
20.09-20.56 m	moderately altered
20.56-21.97 m	moderately to strongly altered
21.95 m	fault
21.97-23.11 m	light-grey to creamy white, 60% feldspar, 35% quartz, 5% biotite, minor white mica, rusty fractures, crumbled and sheared, local disseminated pyrite or pyrrhotite
23.04-23.18 m	fault
24.98-25.01 m	braided cross fractures with quartz veins
25.60-26.03 m	broken and sheared with blebs of chlorite and pyrite, fault?
26.03-26.12 m	0.09 m lost core
26.12-28.80 m	numerous rusty fractures, some minor magnetite veins 1-3 mm thick, fractures to 5 mm filled with quartz, very minor malachite
28.80-29.50 m	patches of disseminated magnetite
29.78-30.40 m	sheared and altered chips - fault?
30.99-31.39 m	malachite and azurite along fractures and locally disseminated
31.39-31.95 m	fractures at about 30°CA, more abundant malachite, azurite, and magnetite, quartz veinlets common
31.95-32.00 m	0.05 m lost core
32.00-32.10 m	fractured and rusty, (fault?)
32.00-32.77 m	malachite, azurite, and magnetite about 1% of rock
34.14-34.75 m	rusty, abundant quartz veinlets ½-1 cm thick
34.69-34.77 m	broken and sheared, (fault?)
34.77-34.85 m	0.08 m lost core
36.04-36.17 m	broken and sheared, (fault?)

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Metrage	Interval	Description
	36.17-36.48 m	0.31 m lost core
	37.63-37.73 m	broken
	37.73-37.83 m	0.10 lost core
	37.83-37.88 m	broken
	38.31-39.20 m	sheared and broken with malachite and azurite, feldspars locally altered to clays, (fault?), biotite more abundant
	39.20-39.62 m	0.42 m lost core
	40.59-40.72 m	sheared, broken, rusty (fault?)
	40.72-40.84 m	0.12 m lost core
	40.84-42.32 m	rusty, several quartz veins up to 1 cm thick, some magnetite veins up to 1 cm thick
	43.09 m	1 cm of rusty clayey mylonite at 70°CA, probably minor fault
	43.32-47.02 m	minor azurite and malachite along joints and quartz veins and as coatings on feldspar phenocrysts
	45.45-46.05 m	quartz veins and silicification most abundant
	48.66-48.87 m	sheared and rusty, possible fault
	48.87-49.32 m	rusty and altered, abundant quartz veins 5-10 mm thick
	49.67-49.92 m	sheared and rusty, possible fault, minor malachite on fracture surfaces
	51.77-52.00 m	abundant quartz veining subparallel CA, silicified, very minor malachite
	55.73-58.70 m	sheared, rusty, core locally broken, malachite on joint faces
	58.70-59.20 m	fractured, bleached, silicified with numerous 1-5 cm quartz veins, patches of malachite to 1 cm across on fracture faces, locally malachite on altered feldspar phenocrysts, magnetite and pyrite commonly up to 2% of rock
	59.20-59.30 m	0.10 m lost core
	59.30-62.79 m	as 58.70-59.20 m
	62.79-64.60 m	fresh unaltered, dark-grey groundmass
	64.63-64.83 m	0.20 m lost core
	64.83-65.00 m	sheared, minor malachite
	65.25-66.79 m	groundmass more bleached and silicified

Company: Tatam Resources Inc.  
 Drillhole: 85-2

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Metrage	Interval	Description
	66.79-68.01 m	darker groundmass, little silicification
	68.04-69.20 m	rusty, sheared, fractured, probably faulted, minor malachite
	69.20-70.78 m	bleached, rusty, abundant quartz veins to 1 cm thick, magnetite, minor azurite
	70.78-76.82 m	grey groundmass, mainly unaltered
	72.40-72.63 m	broken and sheared, possible fault
	73.45-73.60 m	ground, clayey fragments, rusty, minor malachite, fault
	74.77 m	5-mm thick fracture at 40°CA with clays, malachite, and minor chalcopyrite
	76.65-76.85 m	becoming bleached and silicified with minor quartz veins
	76.85-77.33 m	bleached, silicified with numerous minor quartz veins, badly sheared, fault?
	77.33-77.46 m	0.13 m lost core
	77.46-77.60 m	as 76.85-77.33 m
	77.60-81.83 m	grey groundmass, some silicification, minor quartz veins
	78.10-78.43 m	minor malachite on fracture surfaces, core broken
	81.83-97.76 m	light-grey, mostly unaltered
	86.71-86.81 m	sheared and rusty, fault
	97.58-97.74 m	sheared and silicified, fault
	97.88-100.89 m	highly sheared and chloritized, mainly soft clayey rubble
100.89	-	End of hole

Company: Tatam Resources Inc.  
 Drillhole: 85-3  
 Azimuth: 93°  
 Inclination: -67° at collar  
 Length: 76.20  
 Core recovered: 52.76 m; 74.3%  
 Core Size: NQ

Property: Bur  
 Location: at top of west side of  
 Tatamagouche Canyon on claim Wen 5  
 Coordinates: 10675 m N, 13345 m E  
 Elevation: 1252 m (from 1:2000 topo map)  
 Drilled: 1985 09 19 to 1985 09 24  
 Logged and sampled by L.B. Halferdahl

Purpose: To confirm the auriferous intersections in drillhole 81-5.

Note: Lost core arbitrarily assigned to each run according to character of core or at the bottom of the run.

Metrage	Interval	Description
0.00- 5.26	5.26	<u>Overburden</u> 5.18-5.26 m medium-grey-green, very fine grained, about 10% dark grains to 3 mm in size visible on joints and diamond-cut surfaces, some associated with sparse very fine sulfides, few brownish grains in matrix, very slightly magnetic
5.26- 17.15	11.89	<u>Gabbro</u> 5.26-5.35 m greenish-grey, grain size about 2 mm, 60% or more pale-whitish-green grains in interlocking texture with blackish-green grains; two fragments: dark-green with reddish areas, pale-green grains to 4 cm in size (phenocrysts?) 5.35-5.79 m 0.44 m lost core 5.79-6.09 m as above, odd fragment with white quartz and calcite 6.09-6.40 m 0.31 m lost core 6.40-6.65 m as above 6.65-6.71 m 0.06 m lost core 6.71-7.31 m as above 7.31-8.53 m as above 7.94-8.53 m altered 8.53-9.36 m as above 9.36-9.75 m 0.39 m lost core 9.75-11.28 m as above 10.95-11.28 m odd irregular clot of white mineral probably feldspar, one with aggregate of sulfide 2-3 mm in size (chalcopyrite?) 11.28-12.72 m as above 12.72-13.88 m as above, crumbly due to alteration, breaks easily along fractures

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 Drillhole: 85-3

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Metrage	Interval	Description
		13.88-14.40 m as above
		14.40-14.72 m becoming finer-grained, black phenocrysts? in fine green-grey matrix
		14.72-14.77 m sparse disseminated fine pyrite near rusty patches
		14.86-14.90 m irregular patches of white dolomite, possibly cement in a breccia
		14.90-16.30 m as above
		15.02-15.32 m irregular white dolomite vein, crumbly, breaks along fractures
		15.58 m narrow white dolomite vein
		16.30-17.15 m as above, grain size about 1 mm, nearly all broken in fragments many held together with drilling mud
		16.78 m shear about 1-2 cm wide at 20 <sup>o</sup> CA
17.15- 24.78	7.63	<u>Tuff</u>
		17.15-17.57 m light-grey, cherty, banded at 82 <sup>o</sup> CA, some bands slightly darker, some fragments vitrophyric, others core better : more crystallized
		17.57-18.21 m 0.64 m lost core
		18.21-18.34 m greyish-green, vitrophyric, minor rust on fracture surfaces
		18.34-18.59 m greyer, vitrophyric at top, more crystalline below, banding at 80 <sup>o</sup> CA, sparse disseminated pyrite 18.56-18.59 m
		18.59-18.71 m light-grey with darker bands, mostly crystalline, sparse disseminated pyrite, minor pyrite along hairline fractures, irregular whitish-buff areas to 3 cm in size
		18.71-19.51 m 0.80 m lost core
		19.51-19.55 m two types of fragments: light-greenish-grey, vitrophyric some with few per cent of ½-mm whitish spots surrounded by clear glassy rims ½-1 mm thick; darker-grey, crystalline with sandy texture
		19.55-22.14 m 2.59 m lost core
		22.14-22.69 m grey-green, vitrophyric, few white calcite veins
		22.69-23.16 m more crystalline, more numerous irregular white calcite veins some more or less longitudinally along core, odd rusty spot

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Drillhole: 85-3

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Metrage	Interval	Description
		23.16-23.41 m black, fine-grained, soft, rust on joints, partly altered
		23.41-23.74 m dark-green-grey, grain size to 1 mm, some with texture of a lava flow; other fragments: lighter-green with black crystals to 2 mm in aphanitic matrix
		23.74-24.38 m 0.74 m lost core
		24.38-25.38 m all very crumbly and altered
		24.38-24.63 m as 23.41-23.74 m, few white dolomite veins
		24.63-24.78 m altered and sheared, whitish-brown, some white calcite
24.78- 27.39	2.61	<u>Basic Volcanic</u>
		24.78-25.38 m dark-grey-green, grain size about ½ mm, some with sparse disseminated pyrite and pyrrhotite, minor rust on fractures
		25.38-25.60 m 0.22 m lost core
		25.60-25.78 m as 24.78-25.38 m above
		25.78-25.91 m 0.13 m lost core
		25.91-27.11 m as above, locally slightly magnetic, minor rust on fractures, very dark colored, very sparse sulfides, more clastic-looking towards bottom, whitish clasts or crystals to 2 mm, greenish epidote-colored masses to 3-4 mm
		27.11-27.39 m as right above, some rust on fractures
27.39- 76.20	48.81	<u>Tuff</u>
		27.39-28.85 m pale-green, vitrophyric, much crumbled, local whitish layers 3-4 mm thick at 80°C
		28.85-31.09 m 2.24 m lost core
		31.09-31.44 m pale-green, vitrophyric with spots to 2 mm in size clear of crystallites, few rust spots
		31.44-32.00 m 0.56 m lost core
		32.00-33.03 m vitrophyric as above, some layers with more crystallites, darker-grey bands to 3 mm thick at 85°C, calcite along hairline fractures, odd mass of white vitrophyric to 6 cm in size, local spots clear of crystallites
		33.03-33.53 m 0.50 m lost core
		33.53-34.43 m light-grey, vitrophyric, local extensive clear spots, layering and banding at 85°C, local more numerous crystallites, few fractures with white calcite coatings, odd spot of rust on fracture surfaces

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Metrage	Interval	Description
	34.43-35.63 m	as above, odd irregular mass of white calcitic vitrophyric to 4-5 cm in size with some extensive whitish mottling, some bands with almost 100% crystals, few irregular white calcite veins, minor rust on fractures
	35.48-35.63 m	disseminated calcite
	35.63-36.64 m	as above, almost all crystalline, longitudinal white calcite veins to 1 cm thick
	35.63-36.13 m	extensive irregular white mottling
	35.86 m	contact between light-grey above and dark-grey below at 60 <sup>o</sup> CA with conspicuous disseminated pyrrhotite above and below, dark-grey completely crystalline with 5% or more disseminated pyrrhotite, rusty fractures in dark-grey, some white calcitic mottling
	36.18 m	10-20% disseminated pyrrhotite in 1-cm layer with less above and below
	36.33 m	10-20% disseminated pyrrhotite in 1-cm layer
	36.53-36.58 m	few spots of white calcite?
	36.64-37.52 m	dark as previous with disseminated pyrrhotite, 20% or more dark laths (biotite?), rusty fractures
	36.70 m	vitrophyric
	36.87 m	almost white limy band at 70 <sup>o</sup> CA, little or no pyrrhotite
	36.87-37.52 m	extensively mottled with white some of which is calcitic, odd grain or more of pyrrhotite
	37.52-38.44 m	green-grey, generally sparse but locally extensive finely disseminated sulfides, calcite along fine fractures, some fractures coated black
	37.52-37.78 m	extensively mottled with whitish calcite, some layering at 85 <sup>o</sup> CA
	37.78-38.02 m	lighter-grey, all crystalline
SAMPLE 4755	37.52-38.02 m	0.50 m Au<1 ppb, Cu 97 ppm, Pb 1 ppm, Zn 70 ppm
	38.02-38.44 m	vitrophyric
	38.22-38.44 m	few rusty-coated fractures
	38.44-38.56 m	0.12 m lost core
	38.56-38.66 m	more calcitic mottling
	38.66-38.87 m	more black-coated fractures
	38.87-39.01 m	to 5% disseminated pyrrhotite in aggregates to 4 mm in size with minor calcopyrite

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Metrage	Interval	Description
SAMPLE 4756	38.40-39.01 m	0.49 m Au<1 ppb, Cu 98 ppm, Pb 1 ppm, Zn 57 ppm
	39.01-39.60 m	light-grey with disseminated calcite, layered at 85°C, black coating on some fractures, locally mottled with whitish material (not all calcite)
	39.40-39.60 m	vitrophyric
	39.60-39.64 m	0.04 m lost core
	39.64-39.78 m	light-grey to light-greyish green, vitrophyric, some fractures coated black
	39.78-40.30 m	light-grey, vitrophyric, locally irregularly banded with pale-green-grey at 85°C, some fractures coated black, locally almost completely crystallized with sparse disseminated sulfides: pyrrhotite, pyrite?, very minor chalcopyrite?, locally with fine sulfides in laminated sections, fine sulfides along some fractures, irregular non-calcitic white banding at 85°C, vitrophyric from 40.26-40.30 m
	40.30-40.43 m	pale-green-grey, vitrophyric, local sparse finely disseminated sulfides
	40.43-40.54 m	0.11 m lost core
	40.54-40.79 m	pale-green-grey, vitrophyric, mostly with sparsely disseminated sulfides, minor rust or fractures
SAMPLE 4757	40.54-40.79 m	0.25 m Au<1 ppb, Cu 400 ppm, Pb 2 ppm, Zn 35 ppm
	40.79-41.15 m	0.36 m lost core
	41.15-41.45 m	vitrophyric as above, no sulfides visible
	41.45-41.65 m	vitrophyric as above, sparse disseminated sulfides
	41.65-42.06 m	0.41 m lost core
	42.06-43.81 m	vitrophyric as previous, sparse disseminated sulfides only chalcopyrite recognized with certainty, minor chalcopyrite along fractures, few rusty spots, local fracture surfaces rusty and partly coated black, sparse pyrite in lower part of interval
	42.68 m	white calcite vein at 65°C with fine black mineral particles along walls
SAMPLE 4758	42.01-42.81 m	0.75 m Au<1 ppb, Cu 225 ppm, Pb 33 ppm, Zn 46 ppm

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Metrage	Interval	Description
	42.81-42.99 m	greenish-grey, very fine grained, sparse to no sulfides, black coating on some fracture surfaces, local non-calcitic white mottling
	42.99-43.28 m	0.29 m lost core
	43.28-43.76 m	slightly darker-grey than interval above, some alteration, mostly completely crystallized, local white mottles to 6 cm in size
	43.70 m	sparse disseminated pyrrhotite, some fractures partly coated black
	43.76-44.21 m	0.45 m lost core
	44.21-44.81 m	as 43.28-43.76 m
	44.63 m	aggregate of pyrrhotite 2 cm in size, locally banded lighter and darker at 85°C
	44.77 m	irregular contact between darker and almost white at 85°C
	44.81-44.98 m	0.17 m lost core
	44.98-46.02 m	lighter-grey, vitrophyric, some whitish mottling, banding at 90°C, calcite along some fractures with minor rust and sulfides, some fractures partly coated black
	45.62-46.02 m	more crystalline, some with irregular whitish spots (lapilli) to 2-3 mm in size
	45.97-46.02 m	5% whitish fragments to 5 mm with 20% pyrrhotite and chalcopyrite
	46.02-46.23 m	0.21 m lost core
	46.23-47.24 m	medium-grey, sandy, black-coated fractures
	46.23-46.33 m	odd light-colored lapilli with pyrrhotite and chalcopyrite, sparse pyrite on fractures
SAMPLE 4759	45.95-46.33 m	0.17 m Au<1 ppb, Cu 313 ppm, Pb 1 ppm, Zn 49 ppm
	46.53-46.95 m	1% disseminated pyrrhotite increasing downhole with odd grain of chalcopyrite
SAMPLE 4760	46.33-46.95 m	0.62 m Au<1 ppb, Cu 21 ppm, Pb 1 ppm, Zn 38 ppm
	46.95-47.24 m	very sparse sulfides, white spots (crystals?) increasing in amount downhole coalescing to 5-10% of rock

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Metrage	Interval	Description
	47.24-47.37 m	pale-greenish-grey vitrophyric with high proportion of crystallites, some with white grains to 1 mm, odd aphanitic layer at 85 <sup>0</sup> CA, sparse pyrrhotite
SAMPLE 4761	47.24-47.37 m	0.13 m Au<1 ppb, Cu 12 ppm, Pb 1 ppm, Zn 32 ppm
	47.37-47.44 m	0.07 m lost core
	47.44-47.85 m	as above but greener, more abundant disseminated pyrrhotite, fracture surfaces coated black, up to 5% pyrrhotite in irregular aggregates to 1 cm some with associated chalcopyrite, irregular layers 5 mm thick with whitish mottling at 80 <sup>0</sup> CA, some calcite on fracture surfaces
SAMPLE 4762	47.44-47.85 m	0.41 m Au<1 ppb, Cu 177 ppm, Pb 1 ppm, Zn 49 ppm
	47.85-48.22 m	as above, with disseminated pyrrhotite and chalcopyrite
	47.90-47.99 m	extensive irregular white calcitic mottling
	48.10 m	layer with coarser fragments, white calcitic mottling
	48.12-48.22 m	more typical vitrophyric, sulfides on fracture surfaces and odd bit of disseminated chalcopyrite
SAMPLE 4763	47.85-48.22 m	0.37 m Au<1 ppb, Cu 295 ppm, Pb 1 ppm, Zn 39 ppm
	48.22-48.31 m	0.09 m lost core
	48.31-49.03 m	typical vitrophyric in upper 30 cm becoming more crystalline downhole, minor disseminated sulfides, minor rust and pyrite on fractures, typical vitrophyric in lowest 8 cm with moderate pyrite on fractures
SAMPLE 4764	48.31-48.95 m	0.64 m Au<1 ppb, Cu 170 ppm, Pb 3 ppm, Zn 41 ppm
	49.03-49.09 m	0.06 m lost core
	49.09-49.23 m	as above but with abundant pyrite on fractures, minor disseminated pyrrhotite
	49.23-50.15 m	grey-green, grain size about ½-1 mm, salt-and-pepper in green and white, minor clots of pyrrhotite some to 1 or even 2 cm in size, fractures coated black
SAMPLE 4765	48.95-49.45 m	0.44 m Au<1 ppb, Cu 62 ppm, Pb 1 ppm, Zn 39 ppm

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Metrage	Interval	Description
	49.45-49.92 m	whitish layer with locally finely disseminated calcite, 1-5% disseminated pyrite, black-coated fractures
SAMPLE 4766	49.45-49.92 m	0.47 m Au 1 ppb, Cu 38 ppm, Pb 1 ppm, Zn 140 ppm
	49.92-50.15 m	medium-grey, vitrophyric with few to very many crystallites, very fine pyrite along fractures and possibly disseminated
SAMPLE 4767	49.92-50.15 m	0.23 m Au 3 ppb, Cu 180 ppm, Pb 1 ppm, Zn 38 ppm
	50.15-50.65 m	0.50 m lost core
	50.65-50.90 m	darker-grey, coarser-grained, completely crystalline, sparse disseminated pyrite, slightly more abundant pyrite on fractures
SAMPLE 4768	50.65-50.90 m	0.25 m Au <1 ppb, Cu 28 ppm, Pb 1 ppm, Zn 95 ppm
	50.90-51.49 m	green-grey with 10% or so white spots (clasts) to 2-3 mm in size, mostly coarser-grained, very sparse or no pyrite visible except locally fine to coarse along fractures
SAMPLE 4769	50.90-51.49 m	0.59 m Au <1 ppb, Cu 6 ppm, Pb 1 ppm, Zn 97 ppm
	51.49-52.15 m	medium-grey, finer-grained vitrophyric to mostly crystalline, local pyrite along fractures
SAMPLE 4770	51.49-52.15 m	0.66 m Au <1 ppb, Cu 51 ppm, Pb 3 ppm, Zn 50 ppm
	52.15-52.43 m	0.28 m lost core
	52.43-52.79 m	darker-grey, fine-grained as above, black-coated fractures, considerable pyrite locally in fractures, probably very fine grained disseminated pyrite
SAMPLE 4771	52.43-52.79 m	0.36 m Au 1 ppb, Cu 117 ppm, Pb 2 ppm, Zn 38 ppm
	52.79-53.03 m	yellow-green cast, vitrophyric, sulfides sparse or absent
SAMPLE 4772	52.79-53.03 m	0.24 m Au <1 ppb, Cu 92 ppm, Pb 3 ppm, Zn 46 ppm
	53.03-53.34 m	0.31 m lost core

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Metrage	Interval	Description
	53.34-53.50 m	somewhat coarser-grained, locally altered, some rust on fracture surfaces, minor pyrite along fractures
	53.50-53.95 m	0.45 m lost core
	53.95-54.44 m	mostly coarse-grained as above but fine-grained in lowest 15 cm, local clots of pyrrhotite to 1 cm or more, some pyrite and pyrrhotite along fractures, some fractures coated black, few lighter-colored pale-whitish-green bands
SAMPLE 4773	53.34-54.44 m	0.65 m Au 2 ppb, Cu 173 ppm, Pb 1 ppm, Zn 332 ppm
	54.44-54.71 m	0.27 m lost core
	54.71-54.81 m	as above, few fragments of whitish calcite
	54.81-54.86 m	0.05 m lost core
	54.86-55.09 m	green-grey, fine-grained, whitish bands at 52 <sup>o</sup> CA with irregular dark masses associated with aggregates of pyrrhotite and pyrite along fractures, possibly minor chalcopyrite, disseminated pyrrhotite in fine-grained green, fractures coated black
	55.09-55.47 m	0.38 m lost core
	55.47-55.63 m	green-grey, medium-grained, with disseminated pyrrhotite, banding at about 80 <sup>o</sup> CA, few fragments of white calcite, local calcite veins
	55.63-56.11 m	0.48 m lost core
	56.11-56.26 m	as above including few white calcite fragments
SAMPLE 4774	54.71-56.26 m	0.64 m Au 3 ppb, Cu 35 ppm, Pb 1 ppm, Zn 62 ppm
	56.26-56.47 m	10-15% white spots to 2 mm in size in light-grey very fine grained crystalline matrix, minor pyrrhotite
	56.47-56.91 m	whitish calcitic masses and layers with disseminated pyrrhotite and chalcopyrite also present in greyer matrix, black-coating on fractures
	56.91-56.94 m	spotted as 56.26-56.47 m
	56.94-57.61 m	fine-grained with disseminated pyrrhotite, calcite along fractures, local whitish clastic layers or masses, thick black coating along fractures some with pyrite and possibly other sulfides, local aggregates of pyrrhotite to 2 cm in size
SAMPLE 4775	56.26-57.61 m	1.35 m Au <1 ppb, Cu 173 ppm, Pb 1 ppm, Zn 36 ppm

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Metrage	Interval	Description
	57.61-58.22 m	as above, light-grey, all crystalline, minor pyrrhotite disseminated and along fractures, whitish feldspar crystals with purplish cast on diamond-cut surface, euhedral pyrite on fracture surfaces
	58.22-58.52 m	0.30 m lost core
	58.52-59.61 m	light-grey, vitrophyric, some almost completely crystalline, calcite veinlets, sulfides generally very sparse or nil but locally small amounts of pyrite disseminated and along fractures
	59.61-60.05 m	0.44 m lost core
	60.05-60.23 m	dark-grey, grain size to 1 mm
	60.23-61.57 m	1.34 m lost core
	61.57-61.70 m	as 60.05-60.23 m
	61.70-62.07 m	irregular lighter-grey to whitish-grey masses with abundant pyrrhotite and pyrite both disseminated and along fractures
SAMPLE 5326	61.70-62.07 m	0.37 m Au<1 ppb, Cu 82 ppm, Pb 2 ppm, Zn 33 ppm
	62.07-62.47 m	as 60.05-60.23 m
	62.47-62.57 m	lighter-grey to white, only moderate amounts of sulfides but increasing in lower 6 cm
	62.54 m	discontinuous layer 4 mm thick at 85 <sup>0</sup> CA with average pyrrhotite content
	62.57-62.96 m	as 60.05-60.23 m
	62.96-63.09 m	0.13 m lost core
	63.09-63.60 m	vitrophyric as above, variable but generally sparsely disseminated pyrrhotite
	63.60-63.73 m	darker-grey with few per cent rounded white spots to 2 mm in size in matrix $\frac{1}{4}$ - $\frac{1}{2}$ mm grain size, salt-and-pepper appearance
	63.73-63.97 m	dark as above but no white spots
	63.97-64.31 m	0.34 m lost core
	64.31-64.34 m	dark-grey as above
	64.34 m	contact at 55 <sup>0</sup> CA with light-grey-white below with no sulfides

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Metrage	Interval	Description
	64.34-64.64 m	dark-grey, salt-and-pepper appearance, few white spots (feldspar crystals) increasing downhole, locally slightly magnetic
	64.64 m	contact at 35°CA with medium-grey without large crystals
	64.67-65.61 m	coarser-grained downhole with odd white calcite vein, dark-grey
	65.61-65.68 m	lighter-grey, abundant pyrite on fractures
	65.68-65.84 m	0.16 m lost core
	65.84-66.33 m	light-grey, partly vitrophyric but mostly crystalline, moderately abundant disseminated pyrrhotite, abundant pyrite on fractures
SAMPLE 5327	65.61-66.33 m	0.56 m Au 2 ppb, Cu 64 ppm, Pb 3 ppm, Zn 44 ppm
	66.33-66.45 m	0.12 m lost core
	66.45-66.67 m	dark-grey, salt-and-pepper appearance, moderately magnetic
	66.67-67.13 m	light-grey, vitrophyric, moderate disseminated pyrrhotite, pyrite along fractures
SAMPLE 5328	66.67-67.13 m	0.46 m Au<1 ppb, Cu 44 ppm, Pb 1 ppm, Zn 30 ppm
	67.13-67.36 m	0.23 m lost core
	67.36-68.04 m	mostly crystalline but some vitrophyric, abundant disseminated pyrrhotite, moderate pyrite smears along fractures, banding and laminations at 85°CA; vitrophyric material is probably the chief product of the eruption with the darker-grey varieties with contacts at lower core angles being bombs; unit may be an agglomerate
	68.04-68.23 m	vitrophyric, some mostly crystalline, less disseminated pyrrhotite than uphole
SAMPLE 5329	67.36-68.23 m	0.87 m Au<1 ppb, Cu 54 ppm, Pb 4 ppm, Zn 40 ppm
	68.23-68.28 m	0.05 m lost core
	68.28-68.45 m	light-grey, mostly crystalline, abundant finely disseminated pyrrhotite, pyrite on fractures
	68.45-68.58 m	0.13 m lost core

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Metrage	Interval	Description
	68.58-69.10 m	generally light-grey, crystalline, darker-grey bands and layers at 85°CA, abundant disseminated pyrrhotite, variable pyrite on fractures some coated black
	69.10-69.19 m	0.09 m lost core
	69.19-69.72 m	as above
SAMPLE 5330	68.28-69.72 m	1.22 m Au<1 ppb, Cu 40 ppm, Pb 3 ppm, Zn 39 ppm
	69.72-70.62 m	light-grey as previous, mostly crystalline, few whitish calcitic masses to 6 cm in size, disseminated pyrrhotite, pyrite on fractures, some fractures coated black
SAMPLE 5331	69.72-70.62 m	0.90 m Au<1 ppb, Cu 45 ppm, Pb 3 ppm, Zn 35 ppm
	70.62-70.69 m	whitish calcitic mass
	70.69-71.14 m	pale-greenish-white with 10-15% green-grey blotches to 4 mm long generally aligned at 85°CA, aggregates of pyrrhotite and few of pyrite in variable amounts, calcitic in upper 5 cm, fractures coated black
	71.14 m	contact at 68°CA
	71.14-71.24 m	volcanic bomb?: medium-grey, fine-grained, completely crystalline, very abundant finely disseminated pyrrhotite
	71.24 m	contact at 85°CA
	71.24-71.44 m	as 70.69-71.14 m
SAMPLE 5332	70.62-71.44 m	0.82 m Au<1 ppb, Cu 47 ppm, Pb 2 ppm, Zn 27 ppm
	71.44-71.96 m	as 70.69-71.14 m
	71.96-72.23 m	as 71.44-71.96 m, very abundant finely disseminated pyrrhotite
	72.02-72.12 m	mottled with whitish-grey
	72.23 m	contact at 52°CA
	72.23-72.26 m	dark-grey with white spots
	72.26-73.48 m	as 72.02-72.12 m, locally coarser-grained with less pyrrhotite, some sections lighter-grey
	73.08-73.48 m	pyrrhotite locally almost absent
	73.48-74.10 m	light- to medium-grey: some lighter and some darker, typical vitrophyric with disseminated pyrrhotite, pyrite along fractures, some sections all crystalline and darker-grey

Company: Tatam Resources Inc.  
 Drillhole: 85-3

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Metrage	Interval	Description
	73.98-74.02 m	brecciated and veined with calcite
	74.10-74.50 m	lighter grey, sparse pyrrhotite, pyrite on fractures
	74.50-74.68 m	0.18 m lost core
	74.68-75.58 m	generally light-grey, vitrophyric, sparse or no disseminated pyrrhotite, pyrite or some fractures, few darker-grey bands 1 cm or so thick at 80 <sup>o</sup> CA with somewhat more abundant pyrrhotite
	75.47-75.58 m	darker-grey with more abundant pyrrhotite, black-coated fractures some with pyrite
	75.58-75.81 m	0.23 m lost core
	75.81-75.90 m	as 75.47-75.58 m
	75.90-76.05 m	lighter whitish-green-grey with local masses of pyrrhotite to 2 cm
	76.05-76.20 m	banded lighter- and darker-grey at 85 <sup>o</sup> CA with abundant finely disseminated pyrrhotite in dark bands
76.20	-	End of hole

Company: Tatam Resources Inc.  
 Drillhole: 85-4  
 Azimuth: 165<sup>0</sup>  
 Inclination: -55<sup>0</sup> at collar  
 Length: 173.75 m  
 Core recovered: 155.03 m; 92.6%  
 Core Size: NQ

Property: Bur  
 Location: west side of Tatamagouche  
 Canyon on claim Wen 7  
 Coordinates: 10975 m N, 13500 m E  
 Elevation: 1190 m (from 1:2000 topo map)  
 Drilled: 1985 09 26 to 1985 10 01  
 Drilled by Kluane Drilling Ltd.  
 Logged and split by L.B. Halferdahl

Purpose: To test the rusty volcanoclastic strata below peridotite and gabbro in Tatamagouche Canyon at the cut-off of the rich placer deposits.

Note: Lost core arbitrarily assigned to each run according to character of core or at the bottom of the run.

Metrage	Interval	Description
0.00- 13.00	13.00	<u>Overburden</u>
		6.40-6.65 m fragments of black magnetic peridotite and grey equigranular gabbro
		6.65-7.01 m 0.36 m lost core
		7.01-7.92 m fragments of gabbro some to 6 cm some altered, locally slickensided in grey clay possibly drilling mud, fresher gabbro with greyish feldspar crystals to 2-3 mm in mass of pyroxene and finer feldspar grains
		7.01-7.05 m brownish shaly material
		7.62-7.92 m 0.30 m lost core
		7.92-8.02 m mostly serpentized gabbro fragments in matrix of grey clay
		8.51-8.84 m 0.33 m lost core
		8.84-9.04 m light-grey fragments, not typical igneous gabbroic texture, minor disseminated pyrite
		9.04-9.14 m 0.10 m lost core
		9.14-9.29 m 20% grains of black mineral to 2-3 mm in lighter-grey matrix of milky white feldspar and dark minerals some lath-shaped, odd flake of white mica, local serpentized fractures
		9.29-9.39 m fragments in grey clay
		9.39-9.45 m 0.06 m lost core
		9.45-9.54 m fragments in grey clay
		9.54-11.28 m 1.74 m lost core

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Drillhole: 85-4

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Metrage	Interval	Description
		11.28-11.44 m some gabbro fragments in grey clay, some medium-grey, grain size mostly to $\frac{1}{2}$ mm, almost "salt-and-pepper" texture with about 50% milky white feldspar and the rest dark minerals including greenish chlorite and up to 3% pale-golden mica-like mineral
		11.44-12.80 m 1.36 m lost core
		12.80-13.00 m fragments some cemented with grey clay
13.00-14.15	1.15	<u>Gabbro</u> , medium-grey, grain size to 2-3 mm, 60-70% light-greyish feldspar probably labradorite, rest dark minerals including pyroxene in igneous texture, some feldspar as phenocrysts in fine matrix, sparse grains of red-brown mica
		13.00-13.16 m odd masses of dark-grey magnetite-bearing peridotite to 4-6 cm with sharp contacts so that mass resembles a pebble or small bomb
		13.16-13.41 m 0.25 m lost core
		13.41-14.15 m as above, some labradorite grains to 5 mm or more in size, locally fractured, filled with grey clay
		14.15 m fault
14.15-14.30	0.15	<u>Tuff</u> , soft, black, odd fragment of very fine grained light-grey to 1 cm in size
14.30-14.99	0.69	<u>Gabbro</u> , as 13.41-14.15 m above, locally fractured
		14.57 m mass of black tuff
		14.57-14.76 m grain size mostly less than $\frac{1}{2}$ mm
		14.76-14.99 m fragments of gabbro and black tuff
14.99-17.37	2.38	<u>Tuff</u> , dark-grey, soft, grain size about $\frac{1}{2}$ mm, about half light-grey feldspars some euhedral crystals to 2 mm and rest dark minerals with few larger dark fragments, few medium-grey lithic fragments to 5 mm, local layering of lighter and darker-grey bands at about 90°CA
		15.98-16.15 m 0.16 m lost core
		16.15-16.85 m as above, some fragments cemented with grey clay (drilling mud?)
		16.85-17.07 m 0.22 m lost core
		17.07-17.37 m as 16.15-16.85 m but slightly coarser-grained with 5-10% whitish fragments to 3 mm in size, up to 2% finely disseminated pyrite

Company: Tatam Resources Inc.  
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Property: Bur  
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Metrage	Interval	Description
17.37- 18.83	1.46	<u>Fault</u> 17.37-17.55 m mostly drilling mud, few tuff fragments 17.55-17.68 m lighter-grey, altered, brecciated and local slickensides 17.68-18.59 m 0.91 m lost core 18.59-18.83 m lighter-grey, 60-70% light-grey to whitish grains less than ½ mm separated and surrounded by black coating and borders, irregular shear surfaces, few grey feldspar grains to 5 mm of type in gabbro uphole, local masses of unsheared gabbro
18.83- 46.20	27.37	<u>Gabbro</u> , medium-greenish-grey grain size mostly to 1 mm, 50-60% light-greenish-grey feldspar intergrown with nondescript dark minerals, few per cent grains with silvery cleavage, 1-2% red-brown mica, light-grey feldspar to 4-5 mm downhole 19.19 m mass of black fine-grained tuff (zenolith?) 19.42 m becoming fresher less fractured and altered 19.65 m fragmented cemented with grey clay (drilling mud?) 20.29 m fracture at 25°CA filled with greenish serpentine? 21.17-21.23 m magnetic darker-grey 21.29 m becoming darker-grey downhole 21.72-21.75 m light-grey coarse-grained granite-like 21.81-21.85 m 0.04 m lost core 21.85-23.58 m as previous, to 10% grey feldspar to 10 mm, matrix mostly to 1-2 mm, locally fractured 21.85-22.15 m not too fresh 22.15-23.58 m fresh 23.58-24.00 m 0.42 m lost core 24.00-24.20 m as above 24.20-24.69 m fractured and partly altered 24.69-25.31 m highly fractured, fragments cemented with drilling mud 25.31-25.38 m 0.07 m lost core 25.38-25.68 m fresh 25.68-26.24 m fractured and partly altered

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Metrage	Interval	Description
	26.24-26.45 m	fresher
	26.45-26.56 m	fractured and partly altered
	26.56-27.01 m	fresh but partly in fragments
	27.01-27.13 m	0.12 m lost core
	27.13-27.59 m	very fresh
	27.59-27.70 m	0.11 m lost core
	27.70-28.68 m	fresh
	28.68-28.73 m	fragmented, partly altered
	28.73-28.80 m	fresh
	28.80-30.20 m	fresh, few slickensided fractures
	30.20-30.35 m	fractured, partly altered
	30.35-30.55 m	fresh
	30.55-30.90 m	fractured and partly altered
	30.90-31.28 m	0.38 m lost core
	31.28-31.55 m	fresh
	31.55-31.93 m	mostly fresh
	31.93-32.31 m	0.38 m lost core
	32.31-32.63 m	mostly fresh
	32.63-33.00 m	fractured and altered
	33.00-33.53 m	0.53 m lost core
	33.53-34.04 m	fresh
	34.04-34.32 m	fractured and partly altered
	34.32-34.80 m	longitudinal fracture with angular fragments cemented with serpentine to 1½ cm wide in fresh gabbro
	34.80-35.82 m	fresh
	35.82-36.06 m	partly altered
	36.06-36.12 m	0.12 m lost core
	36.12-36.52 m	fractured
	36.52-36.58 m	fresh
	36.58-37.09 m	fractured and partly altered
	37.09-37.55 m	fresh
	37.55-37.95 m	0.40 m lost core
	37.95-38.28 m	fractured

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Metrage	Interval	Description
	38.28-38.40 m	fresh
	38.40-38.66 m	fractured and partly altered
	38.66-38.92 m	0.26 m lost core
	38.92-39.63 m	fresh
	39.63-39.84 m	0.21 m lost core
	39.84-40.10 m	fresh
	40.10-40.84 m	locally fractured and partly altered, otherwise fresh
	40.84-41.40 m	fresh
	41.40-41.52 m	fractured and partly altered
	41.52-41.76 m	0.24 m lost core
	41.76-41.90 m	fractured and partly altered
	41.90-41.99 m	0.09 m lost core
	41.99-42.43 m	fractured and altered
	42.43-43.24 m	fresh
	43.24-43.43 m	fractured
	43.43-43.61 m	0.18 m lost core
	43.61-45.99 m	fresh
	45.99-46.17 m	fractured and partly altered
46.20- 47.35	1.15	<u>Tuff</u> , black, fine-grained, to 10% whitish clasts of quartz and feldspar to 1 or even 3 mm, sharp contact with gabbro, grain size of matrix increasing to ½ mm and becoming lighter-colored downhole
	46.57-46.63 m	0.06 m lost core
	46.63-47.31 m	up to 15-20% white clasts, local sparse very fine sulfide grains, becoming finer-grained downhole
	47.31-47.35 m	0.04 lost core
47.35- 66.29	18.94	<u>Gabbro</u> , as 18.83-46.20 m
	47.35-47.85 m	mostly fresh, grain size to 3 mm
	47.85-48.56 m	fresh
	48.56-48.76 m	0.20 m lost core
	48.76-48.83 m	fractured and altered
	48.83-49.07 m	fresh

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Metrage	Interval	Description
	49.07-49.33 m	fractured
	49.33-50.38 m	fresh, local black xenoliths
	50.38-50.44 m	0.06 m lost core
	50.44-50.60 m	fresh
	50.60-50.75 m	fractured and partly altered
	50.75-50.92 m	fresh
	50.92-51.34 m	mostly fractured
	51.34-51.36 m	0.02 m lost core
	51.36-51.97 m	mostly fresh, few fractures
	51.97-52.01 m	0.04 m lost core
	52.01-52.94 m	fresh
	52.94-53.01 m	xenolith of dark-grey fine-grained tuff, fairly soft
	53.01-53.55 m	fresh
	53.55-54.36 m	fresh with fractured and partly altered intervals
	54.36-54.48 m	xenolith as 52.94-53.01 m
	54.48-54.88 m	fresh mostly
	54.88-55.30 m	0.42 m lost core
	55.30-55.63 m	mostly fresh
	55.63-56.29 m	fresh
	56.29-56.31 m	0.02 m lost core
	56.31-57.68 m	fresh
	57.68-57.81 m	0.13 m lost core
	57.81-58.22 m	mostly fresh, local fractures
	58.22-59.11 m	fresh
	59.11-59.17 m	xenolith of fine-grained darker tuff
	59.17-59.27 m	fractured
	59.27-59.44 m	0.17 m lost core
	59.44-59.87 m	mostly fresh, but few fractured sections
	60.11 m	1-cm layer of dark-grey fine-grained tuff at 63 <sup>o</sup> CA
	59.87 m	fracture at 30 <sup>o</sup> CA
	60.73-60.90 m	0.17 m lost core
	60.90-61.52 m	mostly fresh but with fractured and partly altered sections

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Metrage	Interval	Description
		61.52-62.40 m fresh
		61.57 m tuff xenolith
		61.70-61.74 m xenolith of tuff with sharp contrasts
		61.89 m 1-cm layer of tuff at 75 <sup>0</sup> CA
		62.02-62.22 m layer of medium-grey fine-grained tuff with up to 10% chlorite aggregates to 2-3 mm in size - xenolith?
		62.40-63.92 m mostly fresh
		62.64-62.73 m masses with 50-70% whitish feldspar, also xenolith of dark tuff
		62.79-62.83 m xenolith of dark tuff
		63.45-63.49 m xenolith of dark tuff with 10-15% rounded quartz clasts to 2-3 cm
		63.92-65.59 m mostly fresh, few white calcite veins
		65.59-65.88 m dark-grey fine-grained tuff: xenolith, irregular white quartz veins approximately along CA
		65.88-66.29 m fresh
66.29-70.01	3.72	<u>Tuff</u>
		66.29-66.70 m greenish-grey, fine-grained, whitish crystals (porphyritic?) or clasts?
		66.70 m sharp contact with very dark-grey fine-grained tuff and mass of gabbro
		66.70-66.78 m brecciated
		66.78-67.06 m medium-grey with few irregular white calcite veinlets or stringers, grain size to 1 mm with few white grains rest mainly non-descript grey, clastic texture, very sparse tiny sulfides, locally grains to 2 mm, local layers or masses of finer-grained clasts, local grey very fine grained lithic clasts, contact between finer- and coarser-grained at 85 <sup>0</sup> CA, odd irregular layer 1-2 cm thick with 2-3% very finely disseminated pyrite
		67.06 m contact at 55 <sup>0</sup> CA
		67.06-68.58 m as above but finer-grained, very sparsely disseminated sulfides, odd layer with 1-2% disseminated sulfides, slickensided surfaces every few centimetres
		67.67-68.28 m 10-20% whitish grains to 2 mm increasing in amount downhole

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Metrage	Interval	Description
		67.68-67.78 m brecciated - more or less interlocking fragments of above to 2 cm in size cemented with black material
		67.78-68.28 m few whitish-grey masses to 4-5 cm, odd irregular dark-grey very fine grained clast? to 6-8 cm in size
		68.28-68.58 m odd fine-grained clast? with 2-3% very finely disseminated pyrite
		68.58-69.39 m medium-grey as above, fine-grained, variable amounts to 3-4% of disseminated very fine mostly euhedral pyrite
		SAMPLE 5333 68.38-69.39 m 1.01 m Au<1 ppb, Cu 88 ppm, Pb 1 ppm, Zn 48 ppm
		69.39-70.01 m similar to above but with pyrrhotite instead of pyrite in anhedral aggregates to 1-2 mm, increasing content of finely disseminated calcite downhole
		69.56-69.58 m 2-cm layer at 65 <sup>0</sup> CA of whitish carbonate with few aggregates of pyrite to 2-3 mm
70.01-76.21	6.20	<u>Tuff</u>
		70.01-70.07 m becoming light-grey and vitrophyric, minor pyrite on fractures
		SAMPLE 5334 69.39-70.07 m 0.68 m Au<1 ppb, Cu 146 ppm, Pb 1 ppm, Zn 103 ppm
		70.07-70.26 m 0.19 m lost core
		70.26-71.02 m resembles vitrophyric above but almost completely crystallized, locally with sparse very fine sulfides, few tiny black grains along with light-grey, pyrite increasing slightly in amount downhole mostly on fractures, odd calcite-coated fracture
		71.02-72.60 m as above, up to 1% disseminated pyrite and speckled on fractures, odd calcite-filled fracture, some slickensided fractures, some fractures lightly coated with hematitic-red clayey material
		72.60-72.73 m 0.13 m lost core
		72.73-74.07 m as above, odd fracture with fairly abundant pyrite some in cubes, locally crumbly
		74.07-75.58 m as above, locally crumbly, odd fragment of slightly darker-grey to 4-5 cm in size
		75.28-76.16 m finer-grained

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Metrage	Interval	Description
		76.16-76.21 m becoming greenish-grey and vitrophyric
76.21- 78.43	2.22	<u>Basic volcanics?</u> 76.21-77.11 m darker-grey almost black, irregular veinlets, layers, and masses of white calcite to 3 cm in size but mostly less, few small masses of pyrite along fractures, minor disseminated sulfides 76.21-76.41 m coarser-grained 76.27 m abundant pyrite in lens adjacent to white calcite 76.41-77.11 m fine-grained, few clasts to 3 mm or so, odd mass of chalcopyrite to 2 mm in white calcite 77.11-78.43 m as above but fewer white calcite lenses and stringers, coarser-grained to ½ m or even 1-2 mm downhole
78.43- 86.66	8.23	<u>Tuff</u> 78.43-78.64 m 0.21 m lost core 78.64-78.78 m light-grey on diamond-cut surface, fractures black, white cherty lenses in upper half, below medium-grey with black and light-grey clasts to 2 mm 78.78-79.07 m 0.29 m lost core 79.07-79.90 m as lower part of last run, medium-grey, light-whitish-grey grains to 2-3 mm in size with indistinct borders (resemble phenocrysts?) in greyish-green very fine grained matrix, sparse pyrite along some fractures, black slip surfaces at various angles 8-20 cm apart, some fractures lined with calcite, few black grains 2-3 mm, few irregular veins of white calcite one at 70°CA, odd black fragment with sharp borders to 4 mm, very sparse disseminated sulfides possibly including a few grains of chalcopyrite 79.90-80.99 m finer-grained, large white grains less obvious, variably calcitic, erratically distributed black grains somewhat more abundant 80.88-80.93 m mostly white calcite layer with few dark laminae locally with moderate pyrite 80.99-81.37 m similar to 79.07-79.90 m, few irregular stringers and veins of white calcite 81.37-81.66 m light-grey-white grains not obvious, just general jumble of clastic volcanic fragments, variably calcitic throughout particularly in lower 4 cm

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 Drillhole: 85-4

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Metrage	Interval	Description
	81.66-82.46 m	similar to above but slightly darker-grey with 5-10% black clasts? to 2-3 mm conspicuous on diamond-cut surfaces, very sparse disseminated sulfides, few irregular masses of white calcite and quartz to 4 cm some with dark inclusions with abundant fine-grained sulfides (pyrite?), fairly abundant disseminated calcite throughout
	82.46-83.12 m	as above, few masses of white quartz and calcite, very sparse sulfides but slightly more abundant pyrite adjacent to white calcite, variable amounts of disseminated calcite
	83.12-83.92 m	finer-grained, more consistently calcitic with minor but consistent very tiny pyrite cubes
	83.55 m	becoming lighter-grey with few per cent. black spots, tiny pyrite cubes still present
	83.60-83.65 m	lightest-grey
	83.65-83.75 m	shear at 42 <sup>0</sup> CA, light-greenish-grey with white calcite 1 cm thick and other irregular masses of calcite, pyrite in very tiny cubes to 2% of rock locally
	83.75-83.92 m	more masses and irregular stringers of white calcite, some in medium-grey rock with black clasts, some very fine grained lighter-grey with perhpas 1% very tiny pyrite cubes
SAMPLE 5335	83.02-83.92 m	0.90 m Au<1 ppb, Cu 95 ppm, Pb 1 ppm, Zn 53 ppm
	83.92-84.56 m	medium- to light-grey, 5% or so black spots to 2 mm in size, moderately calcitic, fine-grained, up to 1% disseminated pyrite mostly as tiny cubes, minor white calcite stringers
	83.92-83.96 m	few rounded white masses to 3 mm
	84.56-84.94 m	0.38 m lost core
	84.94-85.57 m	as 83.97-84.61 m
	84.99-85.05 m	layer of white at 70 <sup>0</sup> CA - calcite and dolomite? with up to 4% fine pyrite some in thin layers, few irregular veins and masses of white quartz and calcite below
SAMPLE 5336	83.92-85.57 m	1.27 m Au<1 ppb, Cu 72 ppm, Pb 1 ppm, Zn 63 ppm
	85.57-86.66 m	as above, 5% black masses to 2-3 mm in medium-grey variably calcitic matrix, few to 10% or more tiny grains of pyrite, odd contact between finer- and coarser-grained material at about 80 <sup>0</sup> CA, other contacts at low angles probably with volcanic bombs, few irregular masses and lenses of white calcite

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Metrage	Interval	Description
		86.03-86.06 m crumbly, probably brecciated
		86.06-86.16 m breccia fragments with gypsum and white calcite, few masses of pyrite to 1 cm, pyrite along one or two fractures
		86.56-86.66 m odd grain of chalcopyrite
		86.66 m pale-green color on whitish gypsum-like material along fractures
		SAMPLE 5337 85.57-86.66 m 1.09 m Au<1 ppb, Cu 65 ppm, Pb 1 ppm, Zn 71 ppm
86.66- 87.54	0.88	<u>Fault</u>
		86.66-86.73 m sheared and brecciated, light-greenish-grey with fragments of white calcite
		86.73-86.99 m darker-grey, irregularly laminated carbonate mixed with less calcite, some as white stringers or irregular masses and pieces of other rocks (probably sheared and altered gabbro)
		86.39-87.31 m brecciated cemented with drilling mud, as previous
		87.10-87.31 m shearing at 45°CA
		87.31-87.36 m similar to 86.73-86.99 m but no carbonate except white calcite along cracks and stringers
		87.36-87.46 m similar to above but with less distinct laminae, black streaks to 1 cm or so long aligned at 40°CA
		87.46-87.54 m similar to above but without black streaks
		87.54 m phyllitic parting at 75°CA, clayey
87.54- 94.68	7.14	<u>Gabbro</u>
		87.54-88.44 m dark-grey, fairly soft, grain size 1 mm or so, few mica grains, locally laminated like 86.73-86.99 m, minor red-brown mica, few irregular stringers of white calcite
		87.82 m contact at 70°CA, somewhat brecciated material above with stronger less altered below
		88.44-88.70 m medium-grey, perhaps 20% white feldspar to 2 mm in darker mass with small amount of red-brown mica, longitudinal contact with much whiter more highly feldspathic material to one side
		88.70-89.99 m as above, few irregular stringers and veinlets of white calcite, odd segregations of white feldspathic variety

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Metrage	Interval	Description
	89.25-89.50 m	breccia - fragments to 1-2 cm in fine-grained chloritic matrix
	89.50 m	shear surface at 30°CA associated with irregular white calcite stringers just downhole
	89.50-89.99 m	greyish feldspar to 3 mm in size, grain size decreases to 1 mm or so downhole
	89.99-91.48 m	as above, few white calcite masses to 2-3 cm at several angles
	91.32 m	quartz vein 18 mm wide at 25°CA
	91.48-93.03 m	as above, few feldspars to 4 mm in size, few white calcite stringers, some sections with more white feldspar of grain size to 5 mm, same size black grains
	93.03-94.55 m	as above, few stringers of white calcite
	93.20-93.30 m	some shearing, brecciation, and healing of shears
	93.59-93.64 m	breccia with 90% fragments of very fine grained light-grey tuff? in matrix of altered gabbro
	94.10-94.37 m	xenolith? of medium-grey very fine grained silt-sized salt-and-pepper rock, upper contact broken so not observed, lower sharp and irregular with bleaching to pale-green-grey for 2-4 mm adjacent gabbro, about 1% disseminated pyrite, hard and chert-like near contact, no confirmed carbonate except along hair-line fractures
	94.55-94.64 m	as above, fine-grained up to 1 mm, darker-grey
	94.64 m	contact at 90°CA with slightly lighter-grey below
	94.64-94.68 m	as above but finer-grained
94.68-99.55	4.87	<u>Tuff</u>
	94.68-94.95 m	lighter-grey, very fine grained chert-like with less than 1% finely disseminated pyrite grading down to silt-sized salt-and-pepper rock also with finely disseminated pyrite, some with few per cent whitish grains to 2 mm in size few with crystal shapes, few per cent dark grains of similar size, few veins and stringers of white calcite and quartz
SAMPLE 5338	94.68-94.95 m	0.27 m Au<1 ppb, Cu 82 ppm, Pb 1 ppm, Zn 43 ppm
	94.95-95.17 m	light- to medium-greenish-grey, very fine grained, banded at 48°CA, up to 2% finely disseminated pyrite mostly in cubes, bands of white quartz to 2½ cm thick, some at various angles e.g. 70°CA

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Metrage	Interval	Description
SAMPLE 5339	94.95-95.17 m	0.22 m Au<1 ppb, Cu 68 ppm, Pb 1 ppm, Zn 48 ppm
	95.17-95.52 m	as 94.68-94.95 m, with white crystals and black clasts, locally slightly calcitic, odd finer-grained layer at about 45°CA
	95.52-95.75 m	0.23 m lost core
	95.75-95.94 m	as 95.17-95.52 m
SAMPLE 5340	95.17-95.94 m	0.54 m Au<1 ppb, Cu 40 ppm, Pb 1 ppm, Zn 37 ppm
	95.94-96.62 m	as above, medium-grey, silt-size salt-and-pepper, calcite in veins and along cracks, sparse pyrite, few finer- grained sections with up to 5% dark clastics to 2 mm, few fractures with light-hematite-red staining
	96.62-96.82 m	0.20 m lost core
	96.82-97.01 m	as 95.94-96.62 m
SAMPLE 5341	95.94-97.01 m	0.87 m Au<1 ppb, Cu 45 ppm, Pb 1 ppm, Zn 44 ppm
	97.01-97.05 m	as above, calcite stringers
	97.05 m	contact at 42°CA between silt-size above and sheared green-grey with grain size to 1 mm with more abundant cubic pyrite below
	97.05-97.19 m	sheared, white calcite stringers
	97.19-97.56 m	very fine grained, variable pyrite from sparse to 1%, some with dark clasts to 1-2 mm, generally crumbly, white calcite stringers
	97.56-97.60 m	fine-grained layer at 62°CA with 2-3% finely disseminated cubic pyrite, few black clasts, moderately calcitic
	97.60-98.19 m	as above, more numerous black clasts, less pyrite, moderately calcitic, mostly with grain sizes ½-1 mm, local finer-grained layers, local masses of white quartz and calcite
	98.19-98.45 m	similar to above but locally crumbly
SAMPLE 5342	97.01-98.45 m	1.44 m Au<1 ppb, Cu 80 ppm, Pb 1 ppm, Zn 65 ppm
	98.45-99.55 m	medium-green-grey salt-and-pepper, variably calcitic, up to 1% finely disseminated pyrite

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Metrage	Interval	Description
		98.62 m lighter-grey finer-grained band at 48°CA
		98.62-99.20 m locally with black clasts and layers with up to 10% finely disseminated pyrite mostly in cubes, some bands at 42°CA, local pale-hematite-red color on lighter-grey-green, curving contacts at various angles, regular and irregular calcite stringers, local blobs to 3 cm of white quartz
		99.20 m 20% mostly euhedral pyrite in irregular layer 1 cm thick adjacent to mass of white quartz
		99.20-99.55 m local bands or areas with grains to 2 mm
		SAMPLE 5343 98.45-99.55 m 1.10 m Au 1 ppb, Cu 39 ppm, Pb 1 ppm, Zn 51 ppm
99.55-104.94	5.39	<u>Gabbro</u>
		99.55-100.02 m darker-grey, grain size to 1-2 mm, locally abundant pyrite in aggregates, local white calcitic veins
		100.02-101.00 m dark-grey, grains to 2 mm, up to 1% disseminated anhedral pyrite, very few white calcite stringers
		SAMPLE 5344 100.02-100.54 m 0.52 m Au 2 ppb, Cu 250 ppm, Pb 1 ppm, Zn 46 ppm
		101.00-101.13 m fault zone, sheared and crumbly, quartz vein 4 cm thick at 62°CA, 1-2% euhedral pyrite along one fracture
		SAMPLE 5345 101.00-101.13 m 0.13 m Au 2 ppb, Cu 167 ppm, Pb 1 ppm, Zn 42 ppm
		101.13-101.52 m as 100.02-101.00 m
		101.52-103.06 m as above, few white calcite veinlets, very sparse or no sulfides
		102.70-102.73 m white quartz vein at 61°CA
		103.06-103.94 m as above
		103.29-103.35 m coarser-grained to 3 mm or more
		103.85-103.94 m sheared, contact at 85°
		103.87 m quartz vein 1 cm thick at 55°CA
103.94-104.34	0.40	<u>Fault</u> , pale-green-grey, mostly crumbly, irregularly sheared and brecciated, irregular quartz veins, sheared, similar to part of 86.66-87.54 m
		104.32 m shearing at 50°CA, possibly sheared contact
		104.32-104.34 m sheared contact with up to 1% disseminated euhedral pyrite

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Metrage	Interval	Description
104.34- 110.44	6.10	<u>Tuff</u>
		104.34-104.50 m very pale-light-grey with slight greenish cast, up to 10% darker-grey clasts up to 2 mm or so with long axes parallel to contacts in very fine grained matrix
		104.50 m gradational contact over 5 mm at about 30°CA
		104.50-104.66 m very fine grained with light-purple color copiously irregularly veined with pale-green-grey to make small masses up to 2-3 mm of purple, few fractures with pyrite
		SAMPLE 5346 104.32-104.64 m 0.32 m Au<1 ppb, Cu 83 ppm, Pb 1 ppm, Zn 46 ppm
		104.66-104.71 m gradational indistinct contact
		104.71-104.79 m very pale-greenish-grey, very fine grained with up to 5% dark clasts to 1 mm in size and perhaps up to 2% very finely disseminated pyrite cubes
		104.79-104.97 m longitudinal contact between very fine grained pyritiferous variety and streaked variety with irregular calcite stringers, 2-3% pyrite cubes, some aligned black clasts, 9-cm long irregular mass with white calcite speckled with 10-20% fine purple grains (possibly iron stain) and irregular masses of grey-green very fine variety
		104.97-105.25 m up to 10% black clasts aligned at 35°CA in very fine grained greenish-grey tuff, very sparse fine pyrite, irregular white calcite stringers
		SAMPLE 5347 104.64-105.25 m 0.61 m Au<1 ppb, Cu 84 ppm, Pb 1 ppm, Zn 47 ppm
		105.25-105.92 m variably calcitic - finely disseminated and along fractures, minor hematite-like stain on fractures
		105.67-105.72 m crumbly
		105.92-106.36 m medium-grey, up to 10% irregular black clasts to 2 mm, silt size, calcitic
		105.92-106.10 m very sparse pyrite except on few fractures with very tiny cubes
		SAMPLE 5348 105.25-106.10 m 0.85 m Au<1 ppb, Cu 44 ppm, Pb 1 ppm, Zn 46 ppm
		106.10-106.36 m 20-30% very fine whitish needles or laths in matrix, up to 1% finely disseminated euhedral pyrite

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Metrage	Interval	Description
	106.19 m	1-cm thick whitish layer at 63 <sup>0</sup> CA with calcite with irregular purplish laminae and grains
SAMPLE 5349	106.10-106.36 m	0.26 m Au<1 ppb, Cu 88 ppm, Pb 1 ppm, Zn 56 ppm
	106.36-107.37 m	medium-grey with layers of differing petrography at 46 <sup>0</sup> CA : some salt-and-pepper, coarser-grained, 15 mm thick, light-hematite-red stain on calcite on fracture surfaces; others with black clasts in very fine matrix, some with narrow to 3 cm slightly red tint, very sparse sulfides except for one fracture with abundant fine euhedral pyrite above 106.76 m
	106.76-107.02 m	not calcitic
	106.94 m	reddish clasts to 3 cm
	107.02-107.37 m	odd fracture with abundant very fine pyrite
SAMPLE 5350	106.36-107.37 m	1.01 m Au<1 ppb, Cu 53 ppm, Pb 1 ppm, Zn 44 ppm
	107.37-108.89 m	as above, medium-grey, variably calcitic, fair section with dark-reddish mottling, very fine euhedral pyrite in some sections, others green-grey with black clasts as above
	107.59 m	purple grains in white calcite partly pale-reddish-brown
	107.82-107.89 m	black clasts aligned at 35 <sup>0</sup> CA, few fractures with pyrite
	107.89-107.97 m	fine pyrite more abundant in very fine grained interval
	108.14 m	partly white and partly glassy layer of quartz at 37 <sup>0</sup> CA 4-5 mm thick, bleached to pale-greenish-buff for 2 cm above and with up to 2-3% very fine euhedral pyrite, right below 1-cm layer of white quartz with irregular purple laminae and tiny purple grains, few masses of pale-reddish-brown to 4-5 mm, all interlayered with yellow-green very fine grained variety, up to 2% tiny disseminated pyrite cubes and grains
	108.17-108.31 m	bleached pale-buff with few pyrite grains, bleached section dextrally offset about 3 cm on longitudinal fracture
	108.31-108.42 m	green-grey with black clasts
	108.42-108.50 m	very fine grained almost free of black clasts

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Metrage	Interval	Description
	108.50-108.52 m	coarser-grained with quartz and locally abundant pyrite in anhedral masses
	108.52-108.61 m	similar to 108.31-108.42 m
	108.61 m	irregular contact at about 40 <sup>o</sup> CA with coarser-grained darker-green-grey below
	108.70-108.72 m	laminated whitish layer at 55 <sup>o</sup> CA, 2-3% disseminated pyrite
	108.72-108.77 m	similar to 108.61-108.70 m but crumbly and without pyrite
	108.77-108.79 m	fairly abrupt gradation to coarser-grained darker-grey rock termed gabbro above but possibly another variety of tuff, 10-20% black grains, sparse pyrite
SAMPLE 5351	107.37-108.79 m	1.42 m Au <1 ppb, Cu 76 ppm, Pb 1 ppm, Zn 50 ppm
	108.79-108.94 m	coarser-grained
	108.89-108.94 m	very sparse euhedral and anhedral pyrite
	108.94 m	sharp contact at 52 <sup>o</sup> CA
	108.94-109.10 m	10-20% black clasts to 1 mm in size in very fine green-grey matrix, some fine pyrite
	108.96 m	white calcite vein at 52 <sup>o</sup> CA parallel to contact, moderately calcitic below
	109.10 m	sharp contact at 45 <sup>o</sup> CA, no obvious changes right above and below
	109.10-109.75 m	coarser-grained slightly darker-grey with disseminated calcite decreasing downhole, odd quartz veinlet at 72 <sup>o</sup> CA, 10-20% dark-grey clasts or crystals to 2-3 mm, sparse disseminated pyrite
SAMPLE 5352	108.79-109.75 m	0.96 m Au 2 ppb, Cu 133 ppm, Pb 1 ppm, Zn 53 ppm
	109.75-109.83 m	fine-grained grey with disseminated pyrite, some concentrated along sedimentary layers
SAMPLE 5353	109.75-109.83 m	0.08 m Au 1 ppb, Cu 68 ppm, Pb 1 ppm, Zn 41 ppm
	109.83-110.44 m	coarse-grained as above, mostly with sparse pyrite but odd mass to 5 mm, few calcite-filled fractures
	110.33 m	quartz vein 1-cm thick at 20 <sup>o</sup> CA

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Metrage	Interval	Description
110.44- 121.19	10.75	<u>Gabbro or Flow</u>
		110.44-111.96 m coarse-grained, grey feldspars to 3 mm, few black crystals, odd vein of white and glassy quartz to 7 cm, very sparse sulfides, some sections with very few tiny euhedral grains, others with a few anhedral masses to ½ or even 1 mm in size
		111.96-112.91 m as previous, medium-grey, coarse-grained, odd slickensided surface at 65°CA, 5% or fewer black grains 2-4 mm in size decreasing in amount downhole
		112.91-113.11 m 0.20 m lost core
		113.11-113.39 m grain size about 1 mm but still 5% or so grey feldspar grains to 3 mm
		113.39-114.05 m as above, dark, coarse-grained, very sparse sulfides
		114.05 m sharp contact at 50°CA with xenolith of very fine grained grey, cherty tuff with minor disseminated pyrite, very pale-grey border ½ mm thick
		114.05-114.45 m light-grey for about 1 cm adjacent to contact becoming darker-grey away from contact, slightly more pyrite downhole, grains silt size, salt-and-pepper appearance, becoming lighter-grey again towards lower contact
		114.45 m sharp lower contact at 50°CA parallel to upper contact with same ½ mm white margin locally offset up to 1 cm on minor faults
		114.45-114.92 m as 113.39-114.05 m, few laminae of white calcite at 60°CA, few disseminated grains of chalcopyrite toward bottom
		114.92-116.48 m as above, more than one fracture in upper part at 60° and 62°CA, odd grain of disseminated pyrite or chalcopyrite? near top
		116.48-118.01 m as above, coarse-grained, odd mass of chalcopyrite
		117.38-117.46 m coarser-grained with 10% coarser whitish grains and masses
		118.01-119.44 m as above, minor pyrite on some fracture surfaces
		119.14-119.17 m band at 50°CA with white calcite stringers and minor fine pyrite
		119.44-120.08 m as above
		119.60-119.73 m minor coarse greyish-white grains

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Metrage	Interval	Description
		120.00 m becoming finer-grained downhole
		120.08 m sharp contact at 40°CA
		120.08-120.21 m xenolith of fine-grained grey tuff with 10% or so whitish grains to 1 mm, also few black grains, generally coarser-grained away from contacts
		120.21 m sharp contact at 28°CA locally with irregular quartz masses
		120.21-120.63 m as 119.44-120.08 m
		120.63-121.00 m partly irregular sharp longitudinal contact between tuff as 120.08-120.21 m and gabbro, local irregular quartz masses and stringers
		121.00-121.19 m sharp longitudinal contact (irregular in detail) continues at 17°CA, upper section coarse-grained gabbroic but grain size somewhat finer than above, pyrite along some fractures, whitish border ¼ mm thick along contact; below contact - grey, fine-grained, 10-20% whitish grains to ½ mm increasing to 2 mm downhole and joined by black grains about same size (resembles porphyritic flow)
121.19- 124.60	3.41	<u>Porphyritic Flow</u>
		121.19-122.52 m grey, fine-grained, as lower part 121.00-121.19 m, white and dark grains to 3 mm, pyrite along fracture with small amount finely disseminated, few quartz stringers with 2-3% pyrite
		122.30 m shearing at 45°CA with pyrite along shear surfaces
		122.35 m quartz vein at 18°CA with associated shearing and brecciation, few masses of chalcopyrite along vein
		SAMPLE 5354 121.00-122.52 m 1.52 m Au<1 ppb, Cu 63 ppm, Pb 1 ppm, Zn 51 ppm
		122.52-123.17 m sharp somewhat wavy longitudinal contact at 5°CA; one side continuation of porphyritic lava right above; other side coarse-grained gabbro or flow similar to material uphole
		123.10-123.17 m discontinuous quartz vein along contact
		123.17-124.04 m coarse-grained gabbroic flow as above, very sparse disseminated pyrite, also along a few fractures
		123.57-124.04 m intermittent sections up to 10 or 12 cm long with porphyritic lava (with some pyrite) in part of core possibly from strata below, discontinuous quartz to 1 cm thick along longitudinal contact

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Metrage	Interval	Description
		124.04-124.17 m longitudinal tongue of coarse-grained gabbroic flow as sandwich filling between fine-grained porphyritic lava with finer grain sizes toward contact, moderate pyrite on some fracture surfaces
		124.17-124.54 m fine-grained porphyritic as above, up to 1% disseminated pyrite, becoming coarser-grained to 2 mm downhole with a clastic texture
		124.54-124.60 m more abundant white feldspars, resembles a volcanic bomb
124.60- 130.09	5.49	<u>Gabbro</u>
		124.60-125.57 m grading downhole to coarse-grained gabbroic flow similar to that uphole, up to 1% disseminated sulfides (pyrrhotite?) including some very tiny pyrite grains
		125.57-125.71 m as above
		125.71 m sharp somewhat irregular contact
		125.71-126.07 m up to 10-20% disseminated calcite, few masses of chalcopyrite and pyrrhotite in lowest 2 cm
		125.73-125.79 m indistinct layering at 65°CA with brecciated quartz laminae in lowest 1 cm
		126.07-127.10 m coarse-grained as above, sparse disseminated sulfides, becoming lighter-grey in lowest 28 cm
		127.10-128.56 m similar to lowest 28 cm above, 20% or so masses of twinned grey feldspar to 3-4 mm, about same proportion of whitish quartz aggregates to 2 mm in size, few per cent pale-brownish mineral with good cleavage possibly a mica, 10-20% glassy green quartz, few milky white grains one lath-shaped (feldspar?), 10-20% unidentified dark minerals in fine-grained greyish matrix, some sections with darker aggregates to 5 mm, odd discontinuous stringer of greenish-grey chert-like material but softer than usual chert
		128.20 m slickensided surface at 35°CA, odd zone or fracture with pyrite in lower part, few grains of disseminated pyrite
		128.56-130.09 m as above, minor disseminated pyrite, moderate to abundant pyrite along some fractures some euhedral some anhedral, some fractures slickensided, few irregular masses to 8 cm with 50% whitish grains
130.09- 173.75	43.66	<u>Tuff</u>
		130.09-131.62 m as above, somewhat finer-grained, few masses and stringers of calcite, pyrite along fractures as above

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Metrage	Interval	Description
	131.05-131.10 m	few grains and masses of disseminated pyrrhotite increasing somewhat in amount downhole locally to 1%
	131.62-133.15 m	as above with up to 1% disseminated pyrrhotite, odd slickensided fracture with pyrite but most without pyrite
	133.05-133.15 m	more abundant disseminated pyrrhotite, few fractures with moderate pyrite
	133.15-134.73 m	as above, disseminated pyrrhotite locally up to 2% as 133.15-133.57 m but also elsewhere
	133.77 m	white laminae 2-3 mm thick with irregular borders at 60°CA
	133.65-134.26 m	irregular areas to 8 cm with considerably more whitish-grey minerals, probably volcanic bombs
	134.32-134.73 m	becoming finer-grained to about 1 mm or so, 5-10% conspicuous black spots about 1 mm in size visible on diamond-cut surface
	134.70 m	minor chalcopyrite associated with disseminated pyrrhotite
	134.73-135.75 m	as 134.32-134.73 m above, grain size mostly ½ mm or less but some clasts to 1-2 mm, minor chalcopyrite with pyrrhotite, becoming somewhat darker-grey downhole
	135.71-135.75 m	very fine grained with 5-10% fine sulfides with other dark coarser clasts
	135.71 m	gradational contact at 70°CA
	135.75 m	clots of pyrite to 12 mm, calcite vein at 85°-90°CA
SAMPLE 5355	134.65-135.75 m	1.10 m Au 4 ppb, Cu 77 ppm, Pb 2 ppm, Zn 70 ppm
	135.75-135.76 m	whitish calcite layer 5 mm thick at 85°-90°CA
	135.75-136.04 m	very fine grained whitish bands to 3 cm thick alternating with medium-grey bands 3-4 cm thick at about 70°CA, some contacts offset dextrally up to 1 cm on one or more small faults, sparse to 1% disseminated pyrrhotite, moderate disseminated calcite
	136.04-136.14 m	up to 50% sulfides - pyrrhotite, pyrite, minor chalcopyrite, including one irregular mass of pyrite 2-3 cm long
	136.09 m	contact at 50°CA between lighter-greyish-white with pyrrhotite and minor chalcopyrite above and darker-grey with pyrite below - volcanic bombs?

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Metrage	Interval	Description
	136.14-136.16 m	brecciated, contact at 50°C
	136.16 m	3-4 mm layer of darker-grey with 20-40% sulfides - pyrite and chalcopyrite?
	136.16-136.29 m	lighter-grey, vitrophyric, brecciated, sparse sulfides
SAMPLE 5356	135.75-136.29 m	0.54 m Au<1 ppb, Cu 385 ppm, Pb 3 ppm, Zn 27 ppm
	136.29-136.39 m	light-grey, vitrophyric, brecciated
	136.39-137.80 m	light-grey, vitrophyric with slightly darker-grey layers to 3-4 cm at 70°C in upper part, whitish crystallites to 1 mm in size, calcite-filled fractures
	136.79-136.89 m	minor pyrite along fractures
	136.98 m	minor pyrrhotite and pyrite along fractures
	137.21-137.26 m	rounded clast with 20% or more disseminated pyrite
	137.76-137.78 m	flattened clast 5 cm long with mostly rounded sharp contacts and with pyrite along fractures
SAMPLE 5357	136.29-137.80 m	1.51 m Au<1 ppb, Cu 26 ppm, Pb 1 ppm, Zn 22 ppm
	137.80-138.00 m	fragments of medium-dark-grey with whitish laminae at 85°C, mostly very fine grained but with black and light-grey clasts to 3 mm, light-grey fragments with up to 5% disseminated pyrrhotite and pyrite along fractures, some with disseminated pyrite, many fractures coated black
	138.00-138.28 m	medium-grey, very fine grained with up to 15% disseminated pyrrhotite in grains to 1-2 mm, 10-20% whitish clasts to ½ mm, pyrite on black-coated fractures, local masses of sulfides to 50% or more of rock mostly pyrrhotite but with up to 20% chalcopyrite
	138.05-138.20 m	section with most abundant sulfides
	138.28-138.59 m	more of same but only up to 5% disseminated pyrrhotite, some sections with few black clasts to 1-2 mm
	138.33-138.35 m	layer with 20% light-grey rounded irregularly distributed clasts
SAMPLE 5358	137.80-138.59 m	0.79 m Au<1 ppb, Cu 500 ppm, Pb 1 ppm, Zn 30 ppm
	138.59 m	contact at 80°C with light-grey vitrophyric, gradational in 2 mm, offset 3 cm on fault

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Metrage	Interval	Description
	138.59-139.33 m	vitrophyric grading down to clastic vitrophyric with clasts to 1-2 mm in finer matrix, with very finely disseminated pyrite at 139.05 m, pyrite on fractures
	139.13-139.18 m	abundant disseminated pyrite to 50%
SAMPLE 5359	138.59-139.33 m	0.74 m Au<1 ppb, Cu 70 ppm, Pb 1 ppm, Zn 24 ppm
	139.33-139.36 m	light-grey, vitrophyric, as above
	139.36-139.38 m	gradational contact at 75°CA, downhole fewer and fewer rounded spots 1 mm or so in size in darker matrix (resembles wormy tuff)
	139.38-139.41 m	very fine grained, slightly darker-grey, up to 3-4% disseminated pyrrhotite, up to 5% dark clasts
	139.41-140.08 m	light-grey, clastic vitrophyric, as above, grading to higher proportion to 80-90% crystals in lowest 10 cm, pyrite on fractures, perhaps 1% finely disseminated pyrite, some fractures coated black
	139.65-140.08 m	up to 10% disseminated pyrrhotite mostly as dark spots, possibly some pyrite
	139.84-139.90 m	rounded bomb with somewhat irregular sharp contact (less than 1 mm) rimmed with fine-grained white cherty material 3-20 mm thick, with roughly concentric layers of darker-grey with disseminated pyrrhotite increasing to centre with irregular aggregates to 5 mm with chalcopyrite to 20% of rock
SAMPLE 5360	139.33-140.08 m	0.75 m Au<1 ppb, Cu 100 ppm, Pb 1 ppm, Zn 17 ppm
	140.08-141.65 m	light-grey, clastic vitrophyric, few per cent disseminated pyrrhotite, pyrite on fractures, minor black coating on fracture surfaces, up to 10% irregularly distributed dark-grey clasts to 1 mm in size mostly with sulfides as cores, some almost entirely crystalline
	140.61 m	sulfides increasing to 20% or more
SAMPLE 5361	140.08-140.76 m	0.68 m Au<1 ppb, Cu 260 ppm, Pb 1 ppm, Zn 22 ppm
	140.76-141.13 m	up to 50% pyrrhotite in lighter matrix, minor chalcopyrite and pyrite
	140.96-141.13 m	longitudinal contact - side not described above - no large aggregates of pyrrhotite but perhaps up to 20% in fine disseminations

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Metrage	Interval	Description
	141.27 m	contact at 80 <sup>o</sup> CA with lighter-grey below and sparse disseminated pyrrhotite
	141.27-141.34 m	not clastic vitrophyric
	141.34-141.41 m	clastic vitrophyric with 2-3% pyrrhotite
	141.41-141.43 m	brecciated with odd mass of sulfide to 8 mm
SAMPLE 5362	140.76-141.43 m	0.67 m Au<1 ppb, Cu 382 ppm, Pb 1 ppm, Zn 19 ppm
	141.43-141.65 m	very sparse sulfides
	141.65-142.04 m	clastic vitrophyric, very sparse sulfides, few black clasts to 1 mm locally, crude banding in upper part at 70 <sup>o</sup> CA
	142.04-142.19 m	becoming normal vitrophyric
	142.04-142.12 m	some brecciation with fragments healed with cherty siliceous material, pyrite along fractures
	142.19-142.75 m	clastic vitrophyric, very sparse sulfides
SAMPLE 5363	141.43-142.75 m	1.32 m Au<1 ppb, Cu 73 ppm, Pb 1 ppm, Zn 16 ppm
	142.75-143.15 m	clastic vitrophyric, few per cent disseminated sulfides (pyrrhotite), pyrite or fractures, diamond-cut surface with 5-10% dark-grey spots to 1 mm in size consisting of disseminated pyrrhotite
	143.07-143.12 m	lighter-colored material with up to 40% disseminated pyrrhotite
	143.11 m	3-mm layer of massive pyrrhotite at 80 <sup>o</sup> CA
	143.15-143.40 m	clastic vitrophyric, up to 10% disseminated pyrrhotite, black-coated fractures some with pyrite
	143.23-143.28 m	slice of volcanic bomb with abundant pyrite
	143.40-143.56 m	mostly crystallized and darker-grey with up to 20% disseminated pyrrhotite
	143.56-143.59 m	gradational contact over 3 cm with increasing amounts of light-grey subrounded clasts to 4 mm in size
	143.59-143.62 m	lighter-grey with some layers at 80 <sup>o</sup> CA, crystalline, to 5% disseminated pyrrhotite
	143.62-144.13 m	darker-grey, one clast to 5 cm long, with mass of pyrite to 2 cm, up to 20% disseminated pyrrhotite, all crystalline

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Metrage	Interval	Description
	143.84-144.10 m	light-grey clasts to 4 mm in size locally to 10-20% in darker matrix
	144.10-144.13 m	few aggregates of pyrite to 1-2 cm
	144.13 m	contact at 30 <sup>o</sup> CA
SAMPLE 5364	142.75-144.13 m	1.38 m Au<1 ppb, Cu 65 ppb, Pb 1 ppm, Zn 26 ppm
	144.13-144.14 m	lighter-grey, breccia, odd clasts to 2 cm
	144.14-144.70 m	lighter-grey, clastic vitrophyric, very sparse sulfides generally but increasing slightly toward bottom, pyrite on some fractures
	144.70-145.05 m	light-grey, clastic vitrophyric, up to 2% disseminated sulfides mostly pyrrhotite, some sections with sparse or no sulfides, pyrite on fractures
	144.89-144.99 m	at least two sections 3-4 cm long with 5% or more disseminated pyrrhotite in layers at 80 <sup>o</sup> CA
SAMPLE 5365	144.13-145.05 m	0.92 m Au<1 ppb, Cu 84 ppm, Pb 1 ppm, Zn 15 ppm
	145.05-145.55 m	as above but with some fragments to 2-3 mm all or mostly crystalline, 5-10% locally to 50% disseminated sulfides mostly pyrrhotite but some chalcopyrite and pyrite, black coating on fractures, odd blob of chalcopyrite and pyrite to 15 mm along fractures, local discontinuous layers to 3-4 mm of massive pyrite
	145.55 m	layer with abundant chalcopyrite and pyrite along laminations
	145.55-145.74 m	layer at 82 <sup>o</sup> CA with rounded and subrounded whitish and whitish-grey clasts to 4 cm in finer grey matrix, mostly with little or no sulfides, odd brownish-grey clast to 1 cm with abundant finely disseminated sulfide, layers of varying shades of grey in lower part and odd aggregate of pyrite and chalcopyrite to 1 cm
	145.74-146.08 m	similar to above but clasts only to 1 cm with up to 3 cm at bottom
	145.98-146.08 m	few irregular masses and stringers of greyish-white quartz
	146.08-146.10 m	prominent quartz vein at 35 <sup>o</sup> CA with fracture 3 mm filled with chalcopyrite
	146.08-146.20 m	as above

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Metrage	Interval	Description
SAMPLE 5366	145.05-146.20 m	1.15 m Au<1 ppb, Cu 130 ppm, Pb 1 ppm, Zn 22 ppm
	146.20-146.65 m	darker-grey, grain size to 1 mm with salt-and-pepper appearance, irregular white calcite veinlets and stringers, disseminated calcite
	146.65-146.85 m	breccia : various types of tuff to 3-4 cm in size, some with abundant sulfides, some with sparse or no sulfides
	146.85 m	laminae at 55 <sup>o</sup> CA
SAMPLE 5367	146.20-146.85 m	0.65 m Au<1 ppb, Cu 100 ppm, Pb 1 ppm, Zn 43 ppm
	146.85-147.73 m	resembles clastic vitrophyric but considerably more crystalline, up to 5-10% or so disseminated pyrrhotite, diamond-cut surface with 10% dark spots many containing pyrrhotite, pyrite along fractures
	147.70 m	fine-grained laminae at 45 <sup>o</sup> CA
	147.73-148.04 m	light-grey, mostly crystalline with grain size to ½ mm, up to 10% disseminated pyrrhotite, indistinct contact at 70 <sup>o</sup> CA, locally with few per cent disseminated chalcopyrite
	148.04 m	prominent contact at 68 <sup>o</sup> CA
SAMPLE 5368	146.85-148.04 m	1.19 m Au<1 ppb, Cu 133 ppm, Pb 1 ppm, Zn 30 ppm
	148.04-148.36 m	somewhat darker-grey, finer-grained in upper 6 cm with 2-3% finely disseminated pyrite in cubes, grain size increases to ¼ mm downhole and with 1% or so disseminated pyrrhotite, textures and minerals inversely repeated in lowest 3 cm as at top, probably a volcanic bomb
	148.36 m	sharp contact at 80 <sup>o</sup> CA offset 1 cm along small fault
SAMPLE 5369	148.04-148.36 m	0.32 m Au 1<ppb, Cu 65 ppm, Pb 1 ppm, Zn 38 ppm
	148.36-148.75 m	lighter-grey, all crystalline with grain size to ½ mm, 1-2% disseminated pyrite some in cubes, locally up to 20-30% pyrite, some along fractures with pyrrhotite added downhole from 148.43 m, some sections with sparse sulfides
	148.46-148.53 m	brecciated with 8-mm mass of chalcopyrite at 148.47 m

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Metrage	Interval	Description
	148.75-148.89 m	similar to above but with up to 5% disseminated pyrrhotite, pyrite aggregates along fractures, black coatings on fractures
	148.89-149.27 m	as above but with disseminated chalcopyrite increasing downhole to 2-3%, odd blob of chalcopyrite, also disseminated pyrrhotite, locally abundant cubic pyrite on fracture surfaces
	148.92 m	1-cm wide darker-grey dyke? at 32 <sup>o</sup> CA, very fine grained material with 2-3% cubic pyrite, 5-10% black clasts, extends down into cherty material or vein 3-cm wide with narrow tongues between fragments of light-grey tuff
SAMPLE 5370	148.36-149.27 m	0.91 m Au<1 ppb, Cu 60 ppm, Pb 1 ppm, Zn 17 ppm
	149.27-150.07 m	medium-grey, fine-grained, mostly crystalline but possibly clastic vitrophyric, up to 10% disseminated pyrrhotite with lesser disseminated cubic pyrite and chalcopyrite, some pyrite along fractures, section with irregular stringers or banding at 58 <sup>o</sup> CA, odd blob of pyrite to 1 cm in fracture, no chalcopyrite below about 149.52 m
	150.07-150.42 m	as above but no disseminated pyrite only few blobs along fractures
SAMPLE 5371	149.27-150.16 m	0.89 m Au<1 ppb, Cu 56 ppm, Pb 1 ppm, Zn 14 ppm
	150.42-150.83 m	as above but with much less pyrite than 149.27-150.07 m, pyrite increasing slightly downhole
	150.46 m	lighter-grey layer at 72 <sup>o</sup> CA
SAMPLE 5372	150.16-150.83 m	0.67 m Au<1 ppb, Cu 40 ppm, Pb 1 ppm, Zn 13 ppm
	150.83-151.77 m	as above, 10% disseminated pyrrhotite, much pyrite in cubes, other disseminated irregular pyrite or possibly chalcopyrite, locally more abundant pyrite and chalcopyrite
	151.65-151.77 m	much more abundant pyrite ± chalcopyrite?, few lighter-grey bands at 85-88 <sup>o</sup> CA, abundant pyrite on fractures
SAMPLE 5373	150.83-151.77 m	0.94 m Au 3 ppb, Cu 47 ppm, Pb 1 ppm, Zn 16 ppm

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Metrage	Interval	Description
	151.77-152.04 m	up to 80% sulfides mostly pyrrhotite but some chalcopyrite and pyrrhotite bands or layers to 2 cm thick at 85 <sup>o</sup> -90 <sup>o</sup> CA, some cubic pyrite, extensive pyrite on fractures, matrix of irregular and rounded whitish chert-like masses to 2-3 cm in size
	152.04-152.11 m	similar to above but irregular bands of heavy sulfides only 2-3 mm thick at 80 <sup>o</sup> CA, no chert-like masses
	152.11-152.33 m	similar to 151.77-152.04 m and 152.04-152.11 m but with odd whitish-grey layer to 3 cm with very sparse sulfides, pyrite and chalcopyrite? becoming coarser and more abundant toward bottom, black-coated fractures with locally abundant pyrite some in cubes
	152.33-153.14 m	vitrophyric as above with dark-grey areas with up to 20% disseminated pyrrhotite, 2-3% disseminated pyrite some in cubes throughout, pyrite clots on black-coated fractures, odd light-grey stylolitic-like layer, some sections with bands 1½-2 cm thick of light-grey and dark-grey with abundant disseminated pyrrhotite, some sections with less pyrite
SAMPLE 5374	151.77-153.14 m	1.37 m Au<1 ppb, Cu 60 ppm, Pb 1 ppm, Zn 14 ppm
	153.14-153.82 m	as above but narrower bands or layers, less pyrite, chalcopyrite? associated with pyrrhotite, some cubic pyrite near bottom of interval, few masses of pyrite along fractures
	153.83-154.35 m	slightly darker-grey, vitrophyric, up to 10% disseminated pyrrhotite and 1-2% disseminated pyrite some in cubes, few pyrite masses on fractures, some sections with stylolite-like lines less than 1 cm apart at about 80 <sup>o</sup> CA, some sections with irregular layers 2-3 cm thick of lighter- and darker-grey at 80 <sup>o</sup> CA, odd mass to 5 mm of pyrrhotite and pyrite or possibly chalcopyrite
SAMPLE 5375	153.14-154.35 m	1.21 m Au<1 ppb, Cu 31 ppm, Pb 1 ppm, Zn 13 ppm
	154.35-154.54 m	similar to above but less sulfides, locally with only 1-2%
	154.54-154.79 m	lapilli of various kinds, moderate pyrrhotite and pyrite, slight amount of black on fracture surfaces
	154.79-154.81 m	as 153.83-154.35 m
	154.81-154.86 m	0.05 m lost core

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Metrage	Interval	Description
	154.86-155.31 m	medium-grey, vitrophyric, 80% crystallized, interlocking grains, up to 5% disseminated pyrrhotite, 1-2% disseminated pyrite some in cubes, possibly 1% chalcopyrite, few masses of pyrite or chalcopyrite to 1 cm along fractures
SAMPLE 5300	154.35-155.31 m	0.91 m Au<1 ppb, Cu 36 ppm, Pb 1 ppm, Zn 12 ppm
	155.31 m	major fracture at 15°CA with white calcite 2-3 mm thick, masses of pyrite and chalcopyrite?
	155.31-155.74 m	brecciated, vitrophyric as above, sulfides decreasing in amount, few masses of sulfides to 2 cm between breccia fragments, locally 1-2% disseminated pyrite in cubes
SAMPLE 4836	155.31-155.74 m	0.43 m Au<1 ppb, Cu 22 ppm, Pb 1 ppm, Zn 9 ppm
	155.74-156.36 m	light-grey, vitrophyric as above, up to 2-4% or more very finely disseminated pyrrhotite, some pyrite on fractures, odd pyrite cubes near top of interval, towards bottom locally mottled darker-grey accompanied by up to 10% disseminated pyrrhotite
	156.36-157.16 m	light-grey, vitrophyric
	156.36-156.68 m	up to few per cent disseminated pyrrhotite, few masses of pyrite on fractures, very sparse pyrite cubes locally
SAMPLE 4837	155.74-156.68 m	0.94 m Au<1 ppb, Cu 28 ppm, Pb 1 ppm, Zn 16 ppm
	156.68-157.16 m	sulfides very sparse or absent
	157.12-157.24 m	fracture at 20°CA filled with 1-2 mm of white calcite and masses of pyrite to 5-10 mm
	157.24-157.41 m	dark-grey, vitrophyric as above, up to 10% disseminated pyrrhotite, black-coated fractures with some clots of pyrite, odd larger mass of pyrrhotite to 1 cm
	157.41-157.61 m	probably a volcanic bomb: very irregular roughly concentric bands and disseminations of 50-70% pyrrhotite in light-grey matrix, some sulfides filling space between breccia fragments, some fractures with some pyrite
	157.61-157.88 m	brecciated vitrophyric, generally free of disseminated sulfides but with masses of pyrite locally between fragments

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Metrage	Interval	Description
SAMPLE 4838	157.16-157.88 m	0.72 m Au<1 ppb, Cu 75 ppm, Pb 1 ppm, Zn 24 ppm
	157.88-158.37 m	light-grey, vitrophyric, up to 4% disseminated pyrrhotite, fractures coated black with some masses of pyrite, some layers less than 5 mm thick with up to 20% disseminated pyrrhotite
	158.37-158.74 m	very light grey, mostly crystalline, no disseminated sulfides, but masses of pyrite along some fractures
	158.55-158.74 m	agglomeratic
	158.74-159.02 m	darker-grey, vitrophyric, up to 10% disseminated pyrrhotite, some pyrite on fractures
	159.02-159.31 m	agglomeratic with few masses of pyrite and extending longitudinally along core with tuff similar to 158.74-159.02 m on both sides
SAMPLE 4839	157.88-159.31 m	1.43 m Au<1 ppb, Cu 30 ppm, Pb 1 ppm, Zn 11 ppm
	159.31-159.96 m	some fragments agglomeritic in upper 5 cm, others light-grey vitrophyric with 1-2% disseminated pyrrhotite, local stylolitic-like partings, minor pyrite on fractures, locally brecciated with white calcite in interstices, few masses of pyrite in interstices, mostly breccia below top 5 cm, some fractures with slickensides
SAMPLE 4840	159.31-159.97 m	0.66 m Au<1 ppb, Cu 45 ppm, Pb 1 ppm, Zn 8 ppm
	159.97-160.37 m	one side of core: light-grey, vitrophyric with up to 2% disseminated pyrrhotite; other side: brecciated with some calcite and few masses of pyrite; locally to 20% disseminated pyrrhotite including a few masses to 8 mm in size, some fractures with black coating
	160.37-161.48 m	coarser-grained, local lapilli, otherwise as above, some sections very light grey
	161.11-161.17 m	lighter-grey matrix with irregular bands of 80% pyrrhotite to 5-8 mm thick
SAMPLE 4841	159.97-161.48 m	1.51 m Au<1 ppb, Cu 60 ppm, Pb 1 ppm, Zn 14 ppm

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Metrage	Interval	Description
	161.48-163.01 m	as above, somewhat darker-grey with more disseminated pyrrhotite but some sections with only 1-2% disseminated pyrrhotite in vitrophyric, others with up to 20% and pyrrhotite in masses up to 5-10 mm, pyrite along some fractures, some rough banding at 80 <sup>o</sup> CA, whitish stylolite-like partings, some sections 80-90% or more crystalline toward bottom
	162.69-162.80 m	volcanic bomb? : white cherty matrix with irregular bands with 40% pyrrhotite
SAMPLE 4842	161.48-163.01 m	1.53 m Au<1 ppb, Cu 50 ppm, Pb 1 ppm, Zn 11 ppm
	163.01-164.40 m	light- to medium-grey, vitrophyric, stylolite-like partings, 1-2% disseminated pyrrhotite locally to 10-15%, locally banded and laminated at 90 <sup>o</sup> CA, some pyrite along fractures, darker-grey and almost all crystalline towards bottom
SAMPLE 4843	163.01-164.40 m	1.39 m Au<1 ppb, Cu 52 ppm, Pb 1 ppm, Zn 27 ppm
	164.40-164.44 m	as above with 10-20% pyrrhotite
	164.44-164.48 m	pale green-grey cherty layer with sparse pyrrhotite at 60 <sup>o</sup> CA grading down in lowest 1½ cm to darker-grey with abundant pyrrhotite
	164.48-164.72 m	volcanic bomb? : whitish-grey, chert-like, variable pyrrhotite up to 80% from 163.48-163.58 m, sparse or no pyrrhotite below, some pyrite on fractures, more pyrrhotite in lowest centimetre in band at 80 <sup>o</sup> CA
	164.72-164.78 m	vitrophyric, fine-grained with up to 5-10% disseminated pyrrhotite, stylolite-like parting
	164.78 m	sharp contact at 78 <sup>o</sup> CA
	164.78-163.80 m	whitish-grey chert-like
	164.80-165.36 m	light-grey, vitrophyric, 5-10% disseminated pyrrhotite, becoming more crystalline downhole and then glassier again, some 2-3 cm sections with sparse or no pyrrhotite
	165.10 m	few whitish bands 2-4 mm thick at 80 <sup>o</sup> CA with similar bands 5 mm thick below, pyrite along some fractures
	165.36-165.48 m	whitish-grey chert, sparse sulfides
	165.48-165.62 m	as above but up to 80% pyrrhotite and minor chalcopyrite?, pyrite only along fractures

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Metrage	Interval	Description
SAMPLE 4844	164.40-165.62 m	1.22 m Au<1 ppb, Cu 64 ppm, Pb 2 ppm, Zn 12 ppm
	165.62-165.72 m	mostly vitrophyric with up to 2-5% pyrrhotite
	165.72-166.42 m	light-grey, vitrophyric, up to 1-2% disseminated pyrrhotite locally to 4%, local bands of lighter- grey at 73 <sup>0</sup> CA, odd fracture with white calcite, pyrite along some fractures
	166.31 m	contact at 73 <sup>0</sup> CA with 2-3 cm layer of whitish-grey cherty material below grading down to vitrophyric same as right above but with up to 6-8% pyrrhotite
SAMPLE 4845	165.62-166.42 m	0.80 m Au<1 ppb, Cu 40 ppm, Pb 1 ppm, Zn 15 ppm
	166.42-166.49 m	as above but lighter and darker irregular bands with up to 40% or more disseminated pyrrhotite, few masses of pyrite along fractures
	166.49-166.62 m	as 165.72-166.42 m above, some sections with pyrrhotite aggregates to 1-2 mm, lower part mostly crystalline
	166.62 m	contact at 70 <sup>0</sup> CA
	166.62-166.86 m	as 166.42-166.49 m above with up to 40% or more pyrrhotite
	166.86 m	contact at 70 <sup>0</sup> CA
	166.86-167.25 m	lighter-grey, only up to 1-2% pyrrhotite, pyrite along fractures alternating with dark-grey layers 1-4 cm thick with 10-15% or more disseminated pyrrhotite
	166.94-166.97 m	1-2% disseminated pyrite some in cubes
SAMPLE 4846	166.42-167.25 m	0.83 m Au<1 ppb, Cu 67 ppm, Pb 1 ppm, Zn 15 ppm
	167.25-167.48 m	vitrophyric as previous but sparse or no sulfides
	167.48-167.71 m	medium-grey, vitrophyric, up to 2% disseminated pyrrhotite, pyrite along some fractures, bands at 70 <sup>0</sup> CA
SAMPLE 4847	167.25-167.64 m	0.39 m Au<1 ppb, Cu 30 ppm, Pb 1 ppm, Zn 15 ppm
	167.71-167.78 m	up to 1% pyrite, some cubic
	167.78-168.15 m	darker-grey, all crystalline, salt-and-pepper appearance, up to 1% pyrite mostly as cubes, few rounded lighter-grey clasts to 1 cm, black-coated fractures

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Metrage Interval	Description
168.15-168.44 m	lighter-grey, all crystalline, irregular patches and layers to 3 cm of alternating coarser- and finer-grained, pyrite in cubes but very sparse, some sections darker-grey
168.44 m	irregular whitish layer of quartz or chert 2 cm thick at 70°C
168.46-168.76 m	darker-grey, all crystalline, less than 1% finely disseminated pyrite cubes
168.54 m	1-cm layer of white quartz
168.76-169.01 m	becoming finer-grained and chert-like, odd bleached area with considerably more pyrite some in fine cubes, becoming light-grey and vitrophyric with up to 3% disseminated pyrite at 168.72 m, some fractures with numerous pyrite cubes to ½ mm accompanied by disseminated pyrrhotite in laminations
SAMPLE 4848	167.64-168.94 m 1.30 m Au 1 ppb, Cu 73 ppm, Pb 1 ppm, Zn 38 ppm
168.94-169.10 m	light-grey, vitrophyric with up to 3-5% disseminated pyrrhotite
169.10-169.87 m	light-grey, vitrophyric, up to 5% disseminated pyrrhotite or more locally, some pyrite along fractures, some sections banded lighter and slightly darker-grey at 70°C, with slightly more disseminated pyrrhotite, some offsets up to 1 cm on small faults
SAMPLE 4849	168.94-169.87 m 0.93 m Au 1ppb, Cu 55 ppm, Pb 1 ppm, Zn 16 ppm
169.87-170.08 m	vitrophyric, some layering as above, disseminated pyrrhotite as above with less than 1% pyrite some in cubes, some masses of pyrite to 5 mm, white calcite in fractures
170.08-170.32 m	vitrophyric with disseminated pyrrhotite only, some pyrite along fractures
170.32-171.83 m	light-grey, mostly crystalline, up to 2-3% disseminated pyrrhotite, few short intervals with less than 1% disseminated cubic pyrite, pyrite along fractures and in irregular blobs, some layers lighter-grey with irregular contacts at 73°C, some sections with up to 2-5% pyrite both disseminated and along fractures, whitish quartz vein 5 mm wide at 18°C

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Metrage	Interval	Description
SAMPLE 4850	169.87-170.58 m	0.71 m Au<1 ppb, Cu 55 ppm, Pb 1 ppm, Zn 18 ppm
	170.73-171.83 m	offset of some layers accompanied by pyrite as above and disseminated pyrrhotite, much fractured
	171.09-171.13 m	contact at 70 <sup>o</sup> CA with darker-grey below with pyrite, all crystalline, pyrrhotite not evident; lighter-grey below 171.13 m with some chert-like intervals, vitrophyric downhole
	171.48-171.83 m	lesser pyrrhotite, up to 5-8% pyrite
	171.83-171.84 m	gouge-like material, clasts including pyrite cubes cemented by grey-clay (drilling mud?)
	171.84-171.98 m	darker-grey, all crystalline, banding at 70 <sup>o</sup> CA, up to 20% disseminated pyrrhotite and 10% pyrite some as cubes, others as blobs
SAMPLE 4851	170.58-171.98 m	1.40 m Au<1 ppb, Cu 99 ppm, Pb 4 ppm, Zn 21 ppm
	171.98-172.09 m	light-grey, variable pyrrhotite and pyrite
	172.09 m	contact at 75 <sup>o</sup> CA
	172.09-172.28 m	darker-grey, whitish clasts to 3 mm, salt- and-pepper appearance, up to 2% pyrite
	172.28-172.29 m	very light grey cherty interval with minor pyrrhotite
	172.29-172.57 m	dark-grey, salt-and-pepper appearance, grain size to 1 mm, sparse disseminated pyrite, grain size decreasing to less than 1/2 mm in 10 cm and even finer by 172.49 m, pyrite slightly more abundant reaching 1-2% at 172.53-172.57 m
SAMPLE 4852	171.98-172.57 m	0.59 m Au 1 ppb, Cu 70 ppm, Pb 1 ppm, Zn 38 ppm
	172.57-173.61 m	very light whitish-grey, chert-like, up to 2-3% disseminated pyrite some in cubes, also along fractures and masses aggregating 1 cm
	172.87-173.25 m	light-grey with up to 5-10% disseminated pyrrhotite, alternating with whitish-grey layers to 5 cm thick, some with up to 5% disseminated pyrite, some layers at 85 <sup>o</sup> CA
	173.25-173.61 m	vitrophyric, sparse disseminated pyrite accompanying pyrrhotite

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Metrage	Interval	Description
	173.38 m	shear at 30°CA
	173.61-173.75 m	whitish, chert-like, with disseminated pyrrhotite
	SAMPLE 4853 172.57-173.75 m	1.18 m Au<1 ppb, Cu 60 ppm, Pb 1 ppm, Zn 16 ppm
173.75		End of hole; drill transmission no longer functional

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APPENDIX 2: CERTIFICATES OF ANALYSIS FOR SAMPLES  
FROM DRILLHOLES 85-1, 85-3, AND 85-4

(No samples from 85-2 were analyzed because  
no sections from it were sufficiently  
mineralized to warrant analysis.)



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## CERTIFICATE OF ANALYSIS

TO : HALFERDAHL & ASSOC. LTD.,  
DEPT. 18,  
10509 - 81ST AVE.,  
EDMONTON, ALTA.  
T6E 1X7

CERT. # : A8516757-001-A  
INVOICE # : I8516757  
DATE : 5-OCT-85  
P.O. # : NONE

Sample description	Prep code	Cu ppm	Mo ppm	Pb ppm	Zn ppm	Au NAA ppb	
5451	205	985	59	6	34	32	--
5452	205	1320	84	7	49	289	--
5453	205	1365	98	1	39	130	--
5454	205	1510	89	1	70	101	--
5455	205	349	77	1	26	62	--
5456	205	132	62	9	41	31	--
5457	205	102	15	4	13	55	--
5458	205	111	14	3	13	31	--
5459	205	122	35	7	14	31	--
5460	205	76	7	1	14	42	--
5461	205	100	18	1	14	72	--
5462	205	233	33	1	17	60	--
5463	205	96	29	1	22	31	--
5464	205	63	52	3	26	17	--
5465	205	77	8	1	22	18	--
5466	205	57	7	1	20	18	--
5467	205	137	23	1	27	22	--
5468	205	70	14	1	22	35	--
5469	205	90	10	1	22	18	--
5470	205	51	6	1	16	10	--
5471	205	48	31	5	15	24	--
5472	205	55	20	1	22	21	--
5473	205	105	32	1	20	34	--
5474	205	161	11	1	20	47	--
5475	205	67	16	1	18	29	--
5476	205	90	11	2	19	37	--
5477	205	82	10	1	19	36	--
5478	205	54	16	2	18	25	--
5479	205	78	12	1	26	20	--
5480	205	77	11	1	21	67	--
5481	205	111	9	1	20	28	--
5482	205	158	21	1	23	64	--

Certified by *Hart Bickler* .....



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## CERTIFICATE OF ANALYSIS

TO : HALFERDAHL & ASSOC. LTD.,  
DEPT. 18,  
10509 - 81ST AVE.,  
EDMONTON, ALTA.  
T6E 1X7

CERT. # : A8517523-001-A  
INVOICE # : I8517523  
DATE : 28-OCT-85  
P.O. # : NONE

Sample description	Prep code	Cu ppm	Mo ppm	Pb ppm	Zn ppm	Au ppb	NAA ppb
4755	205	97	--	1	70	<1	--
4756	205	98	--	1	57	<1	--
4757	205	400	--	2	35	<1	--
4758	205	225	--	33	46	<1	--
4759	205	313	--	1	49	<1	--
4760	205	21	--	1	38	<1	--
4761	205	12	--	1	32	<1	--
4762	205	177	--	1	49	<1	--
4763	205	295	--	1	39	<1	--
4764	205	170	--	3	41	<1	--
4765	205	62	--	1	39	<1	--
4766	205	38	--	1	140	1	--
4767	205	180	--	1	38	3	--
4768	205	28	--	1	95	<1	--
4769	205	6	--	1	97	<1	--
4770	205	51	--	3	50	<1	--
4771	205	117	--	2	38	1	--
4772	205	92	--	3	46	<1	--
4773	205	173	--	1	332	2	--
4774	205	35	--	1	62	3	--
4775	205	173	--	1	36	<1	--
5326	205	82	--	2	33	<1	--
5327	205	64	--	3	44	2	--
5328	205	44	--	1	30	<1	--
5329	205	54	--	4	40	<1	--
5330	205	40	--	3	39	<1	--
5331	205	45	--	3	35	<1	--
5332	205	47	--	2	27	<1	--
5483	205	202	21	1	21	95	--
5484	205	158	10	1	22	58	--
5485	205	117	10	1	23	48	--

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## CERTIFICATE OF ANALYSIS

TO : HALFERDAHL & ASSOC. LTD.,  
DEPT. 18,  
10509 - 81ST AVE.,  
EDMONTON, ALTA.  
T6E 1X7

CERT. # : A8518088-001-4  
INVOICE # : I8518088  
DATE : 12-NOV-85  
P.O. # : NONE

ATTN: L. B. HALFERDAHL

Sample description	Prep code	Cu ppm	Mo ppm	Pb ppm	Zn ppm	Au NAA ppb	
5486	205	133	6	7	26	32	--
5487	205	292	9	2	24	62	--
5488	205	218	12	1	24	22	--
5489	205	168	6	1	23	30	--
5490	205	187	8	1	20	51	--
5491	205	137	6	1	21	17	--
5492	205	200	35	1	27	46	--
5493	205	285	17	1	27	75	--
5494	205	192	9	1	25	84	--
5495	205	500	38	1	39	111	--
5496	205	580	15	1	34	97	--
5497	205	780	44	13	32	101	--
5498	205	1030	83	2	48	293	--
5499	205	280	25	1	32	91	--
5500	205	245	18	1	29	34	--
5501	205	1450	57	1	36	167	--
5502	205	375	24	1	30	72	--
5503	205	2900	37	1	37	497	--
5504	205	2080	63	1	42	208	--
5505	205	730	39	1	32	94	--



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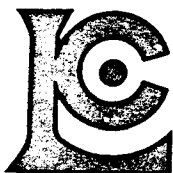
TO : HALFERDAHL & ASSOC. LTD.,  
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10509 - 81ST AVE.,  
EDMONTON, ALTA.  
T6E 1X7

CERT. # : A8518546-001-A  
INVOICE # : I8518546  
DATE : 3-DEC-85  
P.O. # : NONE

ATTN: L.B. HALFERDAHL

Sample description	Prep code	Cu ppm	Pb ppm	Zn ppm	Au NAA ppb		
5333	205	88	1	48	<1	--	--
5334	205	146	1	103	<1	--	--
5335	205	95	1	53	<1	--	--
5336	205	72	1	63	<1	--	--
5337	205	65	1	71	<1	--	--
5338	205	82	1	43	<1	--	--
5339	205	68	1	48	<1	--	--
5340	205	40	1	37	<1	--	--
5341	205	45	1	44	<1	--	--
5342	205	80	1	65	<1	--	--
5343	205	39	1	51	1	--	--
5344	205	250	1	46	2	--	--
5345	205	167	1	42	2	--	--
5346	205	83	1	46	<1	--	--
5347	205	84	1	47	<1	--	--
5348	205	44	1	46	<1	--	--
5349	205	88	1	56	<1	--	--
5350	205	53	1	44	<1	--	--
5351	205	76	1	50	<1	--	--
5352	205	133	1	53	2	--	--
5353	205	68	1	41	1	--	--
5354	205	63	1	51	<1	--	--

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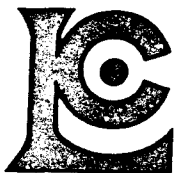
TO : HALFERDAHL & ASSOC. LTD.,  
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EDMONTON, ALTA.  
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CERT. # : A8610205-001-A  
INVOICE # : I3610205  
DATE : 24-JAN-86  
P.O. # : NONE

ATTN: L. B. HALFERDAHL

Sample description	Prep code	Cu ppm	Pb ppm	Zn ppm	Au NAA ppm		
5300	205	36	1	12	<1	--	--
5355	205	77	2	70	4	--	--
5356	205	385	3	27	<1	--	--
5357	205	26	1	22	<1	--	--
5358	205	500	1	30	<1	--	--
5359	205	70	1	24	<1	--	--
5360	205	100	1	17	<1	--	--
5361	205	260	1	22	<1	--	--
5362	205	382	1	19	<1	--	--
5363	205	73	1	16	<1	--	--
5364	205	65	1	26	<1	--	--
5365	205	84	1	15	<1	--	--
5366	205	130	1	22	<1	--	--
5367	205	100	1	43	<1	--	--
5368	205	133	1	30	<1	--	--
5369	205	65	1	38	<1	--	--
5370	205	60	1	17	<1	--	--
5371	205	56	1	14	<1	--	--
5372	205	40	1	13	<1	--	--
5373	205	47	1	16	3	--	--
5374	205	60	1	14	<1	--	--
5375	205	31	1	13	<1	--	--

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TO : HALFERDAHL & ASSOC. LTD.,  
DEPT. 18,  
10509 - 81ST AVE.,  
EDMONTON, ALTA.  
T6E 1X7

CERT. # : A8610200-001-A  
INVOICE # : 18610200  
DATE : 24-JAN-86  
P.O. # : NONE

ATTN: L. B. HALFERDAHL

Sample description	Prep code	Cu ppm	Pb ppm	Zn ppm	Au ppb	NAA ppb		
4836	205	22	1	9	<1		--	--
4837	205	29	1	16	<1		--	--
4838	205	75	1	24	<1		--	--
4839	205	30	1	11	<1		--	--
4840	205	45	1	8	<1		--	--
4841	205	60	1	14	<1		--	--
4842	205	50	1	11	<1		--	--
4843	205	52	1	27	<1		--	--
4844	205	64	2	12	<1		--	--
4845	205	40	1	15	<1		--	--
4846	205	67	1	15	<1		--	--
4847	205	30	1	15	<1		--	--
4848	205	73	1	38	1		--	--
4849	205	55	1	16	<1		--	--
4850	205	55	1	13	<1		--	--
4851	205	99	4	21	<1		--	--
4852	205	70	1	38	1		--	--
4853	205	60	1	16	<1		--	--

*Hart Bichler*

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