



Province of British Columbia

Ministry of Energy, Mines and Petroleum Resources

#### GEOLOGY OF THE HOZAMEEN FAULT AREA BETWEEN BOSTON BAR AND THE COQUIHALLA RIVER, SOUTHWEST BRITISH COLUMBIA (92H)

KILOMETRES KILOMETRES

OPEN FILE MAP 1986/1A

Geologically mapped by G. E. RAY assisted by P. DESJARDINS

RELEASED JANUARY 1986

	LEGEND FOR OPEN FILE MAPS 86/1-A, B, C, D, E, & F			
	Unmapped areas			
	INTRUSIONS INTO ROCKS OF THE PASAYTEN TROUGH			
EOCE	NE CONTRACTOR CONTRACT			
<u></u>	EEDLE PEAK PLUTON			
NP	Granite and granodiorite			
UNCE	RYAIN AGE			
== <del>f</del>	Undifferentiated felsic sills and dykes			
==fm	Felsic sills with some mafic portions			
= P	Feldspar porphyry-bearing felsic sills and dykes			
== n	Non-porphyritic felsic sills and dykes			
== ph	Hornblende porphyritic felsic sills and dykes			
== h	Mafic dykes and sills; composition ranges from diorite to gabbro to hornblendite			
= Q	Quartz vein			
	INTRUSIONS INTO THE HOZAMEEN GROUP			
== 4	Diorite to gabbro sills and dykes			
[=F]	Feldspar-quartz porphyry sills and dykes			
= 9	Quartz porphyry sills and dykes			
= Q	Quartz vein			
SED1	MENTARY ROCKS OF UNCERTAIN AGE			
<b>(</b>	POSSIBLY UPPER JURASSIC DEWONEY CREEK GROUP)			
D	Undifferentiated; Dw - wacke; 91 - lithic wacke; Ds - siltstone, Da - argillite			
UPPE	R JURASSIC AND LOWER CRETACEOUS			
DI	ENDNEY CREEK AND JACKASS MOUNTAIN GROUPS			
J	Undifferentiated sedimentary rocks; Jw - wacke, lithic wacke, sandstone and minor siltstone; Jc - conglomerate			
LOWES	R TO UPPER JURASSIC			
r)	ADMER GROUP			
[ <u>L</u> ]	Undifferentiated Ladner Group; A - argillite; Ao - organic-rich, pyritic argillite; As - argillite with minor siltstone interbeds; Aw - argillite with minor wacke interbeds			
5	Siltstone; Sa - siltstone with minor argillite interbeds; Sw - siltstone with minor wacke interbeds; Sc - siltstone with			
	minor conglomerate interbeds; S1 - siltstone with some coarse lithic clasts			
W	Wacke; W1 - lithic wacke; Wa - wacke with minor argillite interbeds; Ws - wacke with minor siltstone interbeds; Wc - wacke with minor conglomerate interbeds			
	Conglomerate; Cm - conglomeratic mudstone; Cb - green-coloured			
	sedimentary breccia and conglomerate; Cw - conglomerate interbedded with wacke			
LOWER	R TRIASSIC (7)			
Si	PIDER PEAK FORMATION			
V	Undifferentiated; Ym - massive greenstone; Vf - foliated greenstone; Vp - greenstone with pillow structures; Yb - brecciated greenstone; Vs - volcanic sandstone, siltstone, or wacke; Vc - conglomerate; Yg - gabbro; Ya - argillite			
UNCE	UNCERTAIN AGE			
	OQUIHALLA SERPENTINE BELT			
u	Undifferentiated; Us - serpentinite; Ug - gabbro and microgabbro; Um - mariposite-magnesite-bearing rock ('listwanite')			
PERMIAN TO JURASSIC				
H	HOZAMEEN GROUP			
Н	Undifferentiated; Hs - volcaniclastic sedimentary rock, tuff, and siltstone; Hs1 - with thin limestone interbeds; Hsa - with argillite interbeds; Hsc - with chert interbeds; Hsg - with thin volcanic, greenstone units; Ha - argillite; Hac - argillite and minor chert; H1 - limestone; Hc - chert; Hca - with minor argillite interbeds; Hcg - with minor greenstone interbeds; Hg - greenstone;			

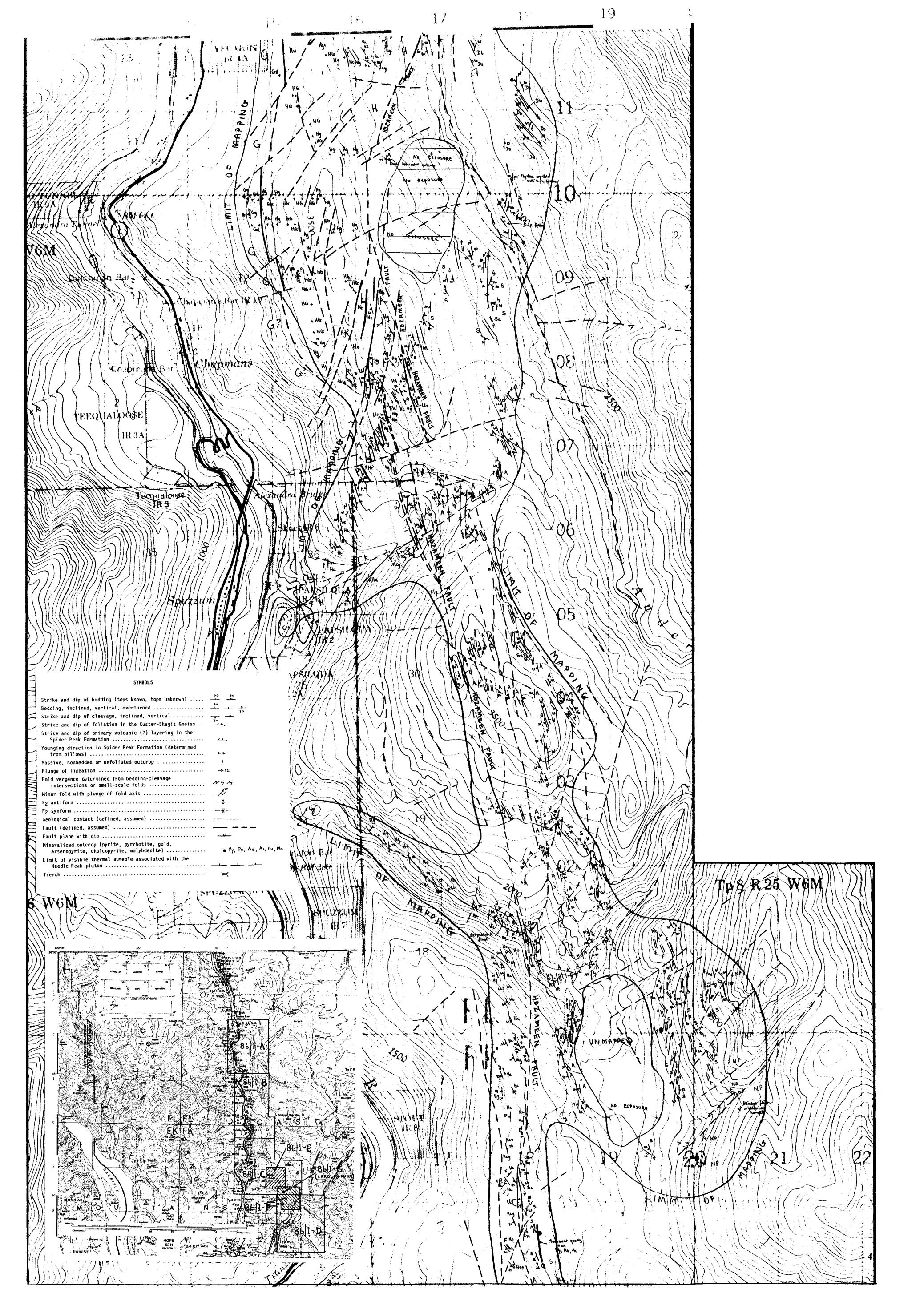
HG - gabbro; Hu - serpentinite (Petch Creek serpentine belt)

Undifferentiated; Gd - massive to weakly foliated granodiorite;

Gg - granitic to dioritic gneiss with local cataclastic fabric;
Ggs - gneiss containing garnet\*:sillimanite; M - marble

CUSTER-SKAGIT GNEISS AND YOUNGER INTRUSIONS

UNCERTAIN AGE





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

#### GEOLOGY OF THE HOZAMEEN FAULT AREA BETWEEN BOSTON BAR AND THE COQUIHALLA RIVER, SOUTHWEST BRITISH COLUMBIA (92H)

KILOMETRES KILOMETRES

OPEN FILE MAP 1986/1B

Geologically mapped by G. E. RAY assisted by P. DESJARDINS

RELEASED JANUARY 1986

#### LEGEND FOR OPEN FILE MAPS 86/1-A, B, C, D, E, & F

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INTRUSIONS INTO ROCKS OF THE PASAYTEN TROUGH

#### EOCENE

#### NEEDLE PEAK PLUTON

VP Granite and granodiorite

#### UNCERTAIN AGE

f Undifferentiated felsic sills and dykes

Felsic sills with some mafic portions

Feldspar porphyry-bearing felsic sills and dykes

Non-porphyritic felsic sills and dykes

Hornblende porphyritic felsic sills and dykes

Mafic dykes and sills; composition ranges from diorite to gabbro to hornblendite

Quartz vein

#### INTRUSIONS INTO THE HOZAMEEN GROUP

Diorite to gabbro sills and dykes

Feldspar-quartz porphyry sills and dykes

= q Quartz porphyry sills and dykes

= Q Quartz vein

#### SEDIMENTARY ROCKS OF UNCERTAIN AGE

#### (POSSIBLY UPPER JURASSIC DEWDNEY CREEK GROUP)

Undifferentiated; Dw - wacke; Ol - lithic wacke; Ds - siltstone,

#### UPPER JURASSIC AND LOWER CRETACEOUS

## DEWDNEY CREEK AND JACKASS MOUNTAIN GROUPS

J Undifferentiated sedimentary rocks; Jw - wacke, lithic wacke, sandstone and minor siltstone; Jc - conglomerate

## LOWER TO UPPER JURASSIC

## LADNER GROUP

Undifferentiated Ladner Group; A - argillite; Ao - organic-rich, pyritic argillite; As - argillite with minor siltstone interbeds; Aw - argillite with minor wacke interbeds

Siltstone; Sa - siltstone with minor argillite interbeds; Sw - siltstone with minor wacke interbeds; Sc - siltstone with minor conglomerate interbeds; Sl - siltstone with some coarse

lithic clasts

Wacke; W1 - lithic wacke; Wa - wacke with minor argillite

interbeds; Ws - wacke with minor siltstone interbeds; Wc - wacke with minor conglomerate interbeds

Conglomerate; Cm - conglomeratic mudstone; Cb - green-coloured sedimentary breccia and conglomerate; Cw - conglomerate interbedded with wacke

## LOWER TRIASSIC (?)

## SPIDER PEAK FORMATION

Undifferentiated; Vm - massive greenstone; Vf - foliated greenstone; Vp - greenstone with pillow structures; Vb - brecciated greenstone; Vs - volcanic sandstone, siltstone, or wacke; Vc - conglomerate; Vg - gabbro; Va - argillite

## UNCERTAIN AGE

#### COQUIHALLA SERPENTINE BELT

Undifferentiated; Us - serpentinite; Ug - gabbro and microgabbro;
Um - mariposite-magnesite-bearing rock ('listwanite')

## PERMIAN TO JURASSIC

## HOZAMEEN GROUP

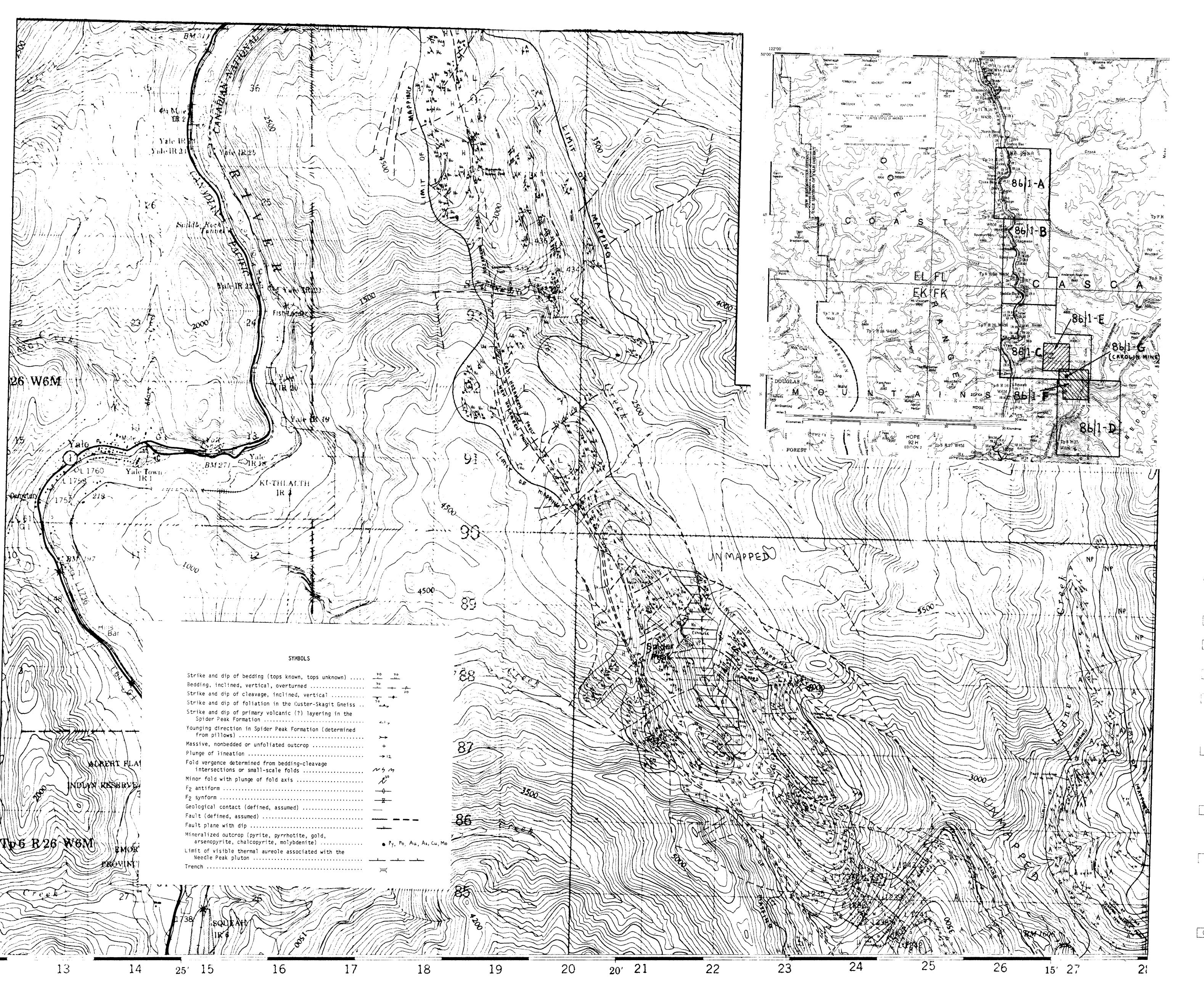
Undifferentiated; Hs - volcaniclastic sedimentary rock, tuff, and siltstone; Hsl - with thin limestone interbeds; Hsa - with argillite interbeds; Hsc - with chert interbeds; Hsg - with thin volcanic, greenstone units; Ha - argillite; Hac - argillite and minor chert; Hl - limestone; Hc - chert; Hca - with minor argillite interbeds; Hcg - with minor greenstone interbeds; Hg - greenstone; HG - gabbro; Hu - serpentinite (Petch Creek serpentine belt)

## UNCERTAIN AGE

## CUSTER-SKAGIT GNEISS AND YOUNGER INTRUSIONS

G

Undifferentiated; Gd - massive to weakly foliated granodiorite; Gg - granitic to dioritic gneiss with local cataclastic fabric; Ggs - gneiss containing garnet±sillimanite; M - marble





#### Province of British Columbia

Ministry of Energy, Mines and Petroleum Resources

#### GEOLOGY OF THE HOZAMEEN FAULT AREA BETWEEN BOSTON BAR AND THE COQUIHALLA RIVER, SOUTHWEST BRITISH COLUMBIA (92H)

OPEN FILE MAP 1986/1C

Geologically mapped by G. E. RAY assisted by P. DESJARDINS

RELEASED JANUARY 1986

LEGEND FOR OPEN FILE MAPS 86/1-A, B, C, D, E, & F

INTRUSIONS INTO ROCKS OF THE PASAYTEN TROUGH

NEEDLE PEAK PLUTON

Granite and granodiorite

#### UNCERTAIN AGE

Undifferentiated felsic sills and dykes

Felsic sills with some mafic portions

Feldspar porphyry-bearing felsic sills and dykes Non-porphyritic felsic sills and dykes

Hornblende porphyritic felsic sills and dykes

Mafic dykes and sills; composition ranges from diorite to gabbro to hornblendite

= Q Quartz vein

#### INTRUSIONS INTO THE HOZAMEEN GROUP

Diorite to gabbro sills and dykes

Feldspar-quartz porphyry sills and dykes

Quartz porphyry sills and dykes

Quartz vein

### SEDIMENTARY ROCKS OF UNCERTAIN AGE

(POSSIBLY UPPER JURASSIC DEWDNEY CREEK GROUP)

Undifferentiated; Dw - wacke; Dl - lithic wacke; Ds - siltstone,

## UPPER JURASSIC AND LOWER CRETACEOUS

DEWDNEY CREEK AND JACKASS MOUNTAIN GROUPS

Undifferentiated sedimentary rocks; Jw - wacke, lithic wacke,

sandstone and minor siltstone; Jc - conglomerate

#### LOWER TO UPPER JURASSIC

#### LADNER GROUP

Undifferentiated Ladner Group; A - argillite; Ao - organic-rich, pyritic argillite; As - argillite with minor siltstone interbeds; Aw - argillite with minor wacke interbeds

Siltstone; Sa - siltstone with minor argillite interbeds; Sw - siltstone with minor wacke interbeds; Sc - siltstone with minor conglomerate interbeds; S1 - siltstone with some coarse lithic clasts

Wacke; W1 - lithic wacke; Wa - wacke with minor argillite interbeds; Ws - wacke with minor siltstone interbeds; Wc - wacke with minor conglomerate interbeds

Conglomerate; Cm - conglomeratic mudstone; Cb - green-coloured sedimentary breccia and conglomerate; Cw - conglomerate interbedded

#### LOWER TRIASSIC (?)

#### SPIDER PEAK FORMATION

Undifferentiated; Ym - massive greenstone; Vf - foliated greenstone; Vp - greenstone with pillow structures; Vb - brecciated greenstone; Ys - volcanic sandstone, siltstone, or wacke; Vc - conglomerate; Vg - gabbro; Va - argillite

#### UNCERTAIN AGE

#### COQUIHALLA SERPENTINE BELT

Undifferentiated; Us - serpentinite; Ug - gabbro and microgabbro; Um - mariposite-magnesite-bearing rock ('listwanite')

## PERMIAN TO JURASSIC

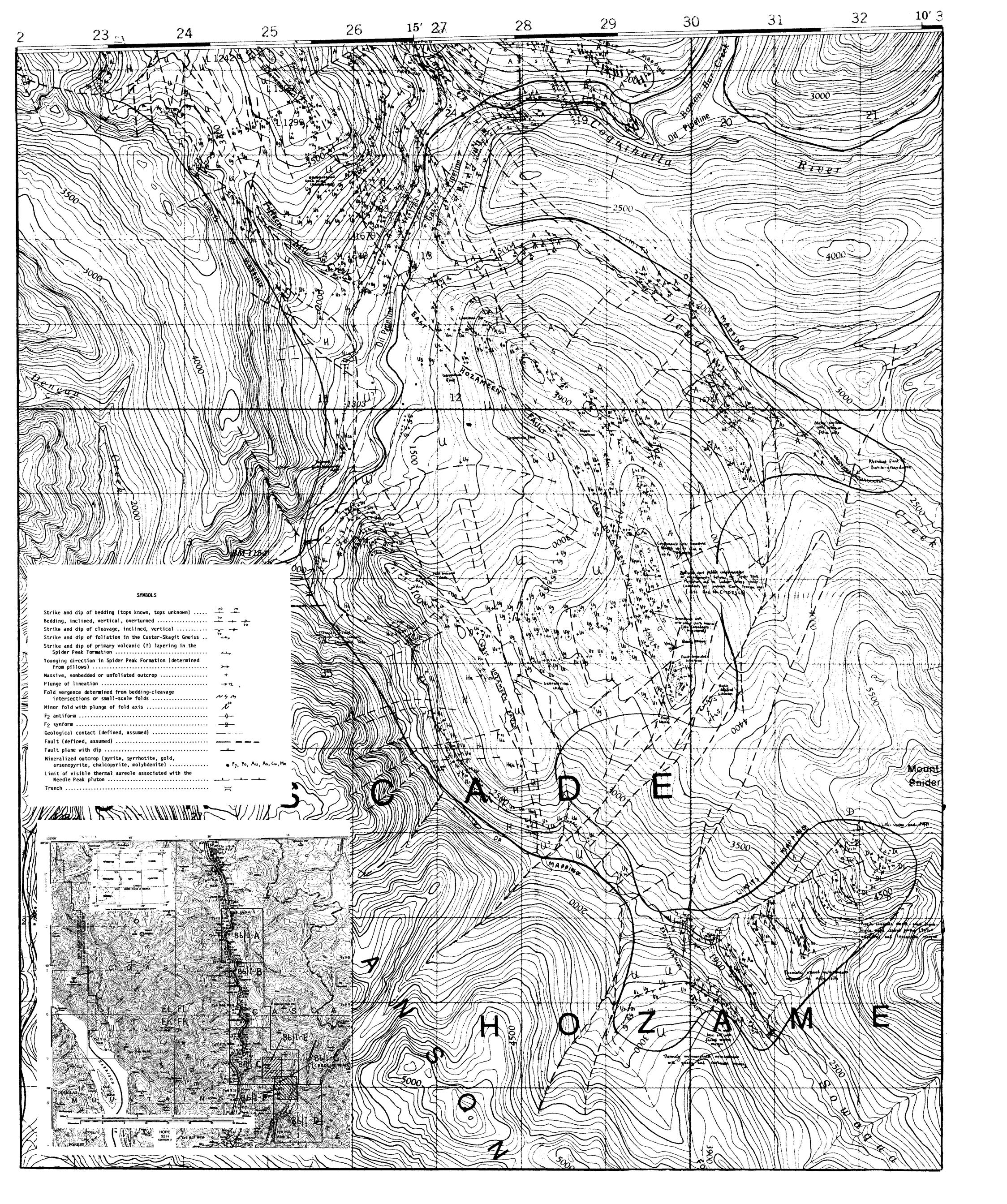
## HOZAMEEN GROUP

Undifferentiated; Hs - volcaniclastic sedimentary rock, tuff, and siltstone; Hsl - with thin limestone interbeds; Hsa - with argillite interbeds; Hsc - with chert interbeds; Hsg - with thin volcanic, greenstone units; Ha - argillite; Hac - argillite and minor chert; Hl - limestone; Hc - chert; Hca - with minor argillite interbeds; Hcg - with minor greenstone interbeds; Hg - greenstone; HG - gabbro; Hu - serpentinite (Petch Creek serpentine belt)

#### UNCERTAIN AGE

#### CUSTER-SKAGIT GNEISS AND YOUNGER INTRUSIONS

Undifferentiated; Gd - massive to weakly foliated granodiorite; Gg - granitic to dioritic gneiss with local cataclastic fabric; Ggs - gneiss containing garnet±sillimanite; M - marble





Province of British Columbia

### Ministry of Energy, Mines and Petroleum Resources **GEOLOGY OF THE HOZAMEEN FAULT AREA BETWEEN**

**BOSTON BAR AND THE COQUIHALLA RIVER,** 

**SOUTHWEST BRITISH COLUMBIA (92H)** KILOMETRES KILOMETRES

OPEN FILE MAP 1986/1D

Geologically mapped by G. E. RAY assisted by P. DESJARDINS

RELEASED JANUARY 1986

LEGEND FOR OPEN FILE MAPS 86/1-A, B, C, D, E, & F

Unmapped areas

INTRUSIONS INTO ROCKS OF THE PASAYTEN TROUGH

EOCENE

**NEEDLE PEAK PLUTON** 

Granite and granodiorite

UNCERTAIN AGE

Undifferentiated felsic sills and dykes

Felsic sills with some mafic portions

Feldspar porphyry-bearing felsic sills and dykes

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Hornblende porphyritic felsic sills and dykes

Mafic dykes and sills; composition ranges from diorite to gabbro to hornblendite

Quartz vein

#### INTRUSIONS INTO THE HOZAMEEN GROUP

Diorite to gabbro sills and dykes

Feldspar-quartz porphyry sills and dykes

Quartz porphyry sills and dykes

Quartz vein

#### SEDIMENTARY ROCKS OF UNCERTAIN AGE

(POSSIBLY UPPER JURASSIC DEWDNEY CREEK GROUP)

Undifferentiated; Dw - wacke; DI - lithic wacke; Ds - siltstone, Da - argillite

#### UPPER JURASSIC AND LOWER CRETACEOUS

DEWDNEY CREEK AND JACKASS MOUNTAIN GROUPS

Undifferentiated sedimentary rocks; Jw - wacke, lithic wacke, sandstone and minor siltstone; Jc - conglomerate

### LOWER TO UPPER JURASSIC

## LADNER GROUP

Undifferentiated Ladner Group; A - argillite; Ao - organic-rich, pyritic argillite; As - argillite with minor siltstone interbeds;

Aw - argillite with minor wacke interbeds

Siltstone; Sa - siltstone with minor argillite interbeds; Sw - siltstone with minor wacke interbeds; Sc - siltstone with

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### UNCERTAIN AGE

### COQUIHALLA SERPENTINE BELT

Undifferentiated; Us - serpentinite; Ug - gabbro and microgabbro; Um - mariposite-magnesite-bearing rock ('listwanite')

### PERMIAN TO JURASSIC

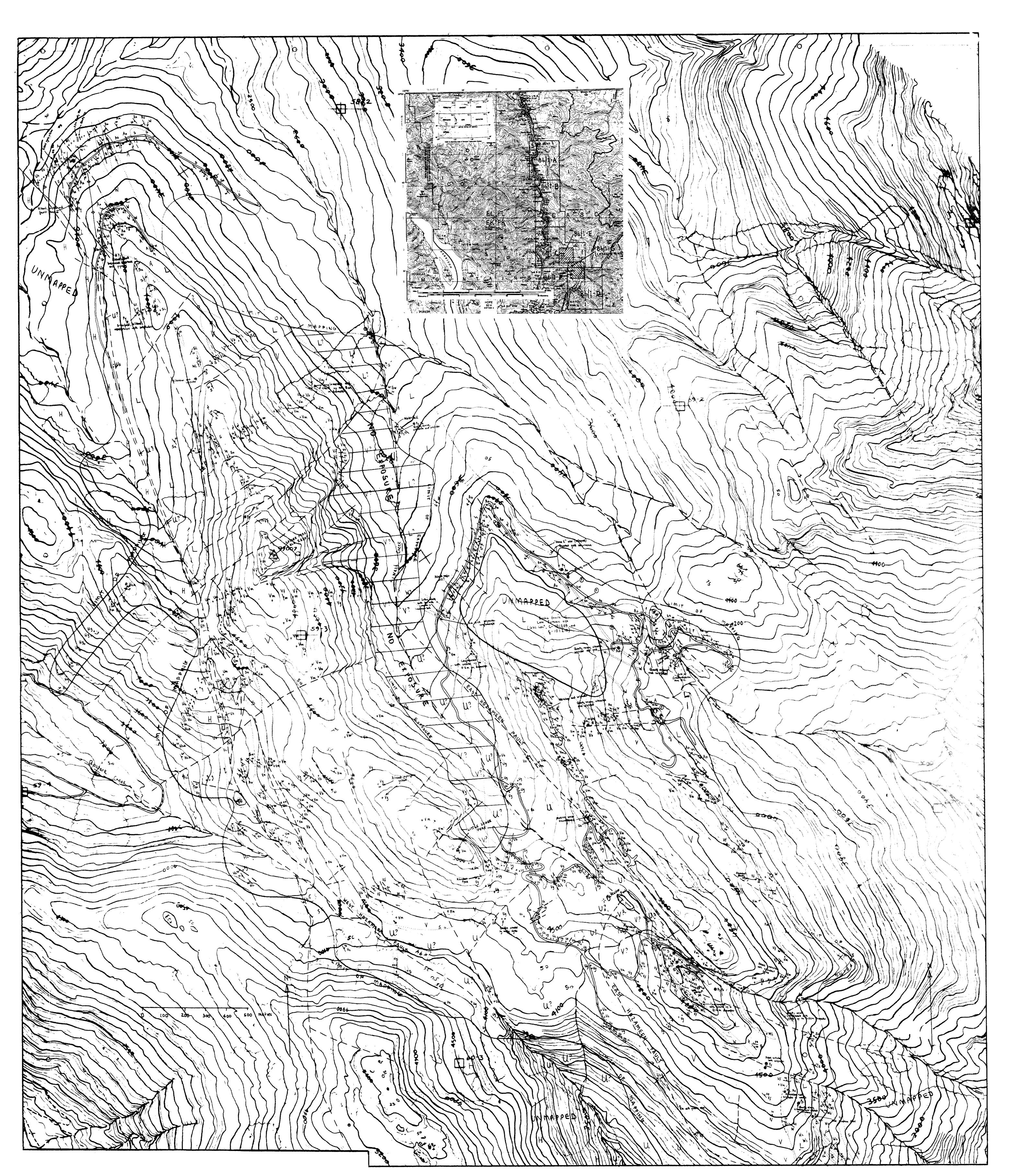
### HOZAMEEN GROUP

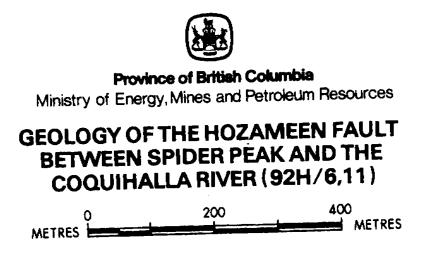
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### UNCERTAIN AGE

### CUSTER-SKAGIT GNEISS AND YOUNGER INTRUSIONS

Undifferentiated; Gd - massive to weakly foliated granodiorite; Gg - granitic to dioritic gneiss with local cataclastic fabric; Ggs - gneiss containing garnet±sillimanite; M - marble





OPEN FILE MAP 1986/1E

Geologically mapped by G. E. RAY assisted by P. DESJARDINS

RELEASED JANUARY 1986

LEGEND FOR OPEN FILE MAPS 86/1-A, B, C, D, E, & F

# Unmapped areas

INTRUSIONS INTO ROCKS OF THE PASAYTEN TROUGH

NEEDLE PEAK PLUTON

NP Granite and granodiorite

Granite and granodiorite

HNCEDTAIN AGE

Undifferentiated felsic sills and dykes

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Hornblende porphyritic felsic sills and dykes

Mafic dykes and sills; composition ranges from diorite to gabbro to hornblendite

=Q Quartz vein

#### INTRUSIONS INTO THE HOZAMEEN GROUP

Diorite to gabbro sills and dykes

Feldspar-quartz porphyry sills and dykes

Quartz porphyry sills and dykes

Q Quartz porpnyry sills

#### SEDIMENTARY ROCKS OF UNCERTAIN AGE

(POSSIBLY UPPER JURASSIC DEWDNEY CREEK GROUP)

Undifferentiated; Dw - wacke; D1 - lithic wacke; Ds - siltstone,
Da - argillite

## UPPER JURASSIC AND LOWER CRETACEOUS

DEWDNEY CREEK AND JACKASS MOUNTAIN GROUPS

Undifferentiated sedimentary rocks; Jw - wacke, lithic wacke, sandstone and minor siltstone; Jc - conglomerate

## LOWER TO UPPER JURASSIC

## LADNER GROUP

Undifferentiated Ladner Group; A - argillite; Ao - organic-rich, pyritic argillite; As - argillite with minor siltstone interbeds; Aw - argillite with minor wacke interbeds

Siltstone; Sa - siltstone with minor argillite interbeds; Sw - siltstone with minor wacke interbeds; Sc - siltstone with

Wacke; WI - lithic wacke; Wa - wacke with minor argillite interbeds; Ws - wacke with minor siltstone interbeds; Wc - wacke

minor conglomerate interbeds; S1 - siltstone with some coarse

with minor conglomerate interbeds

Conglomerate; Cm - conglomeratic mudstone; Cb - green-coloured sedimentary breccia and conglomerate; Cw - conglomerate interbedded with wacke

## LOWER TRIASSIC (?)

## SPIDER PEAK FORMATION

Undifferentiated; Vm - massive greenstone; Vf - foliated greenstone; Vp - greenstone with pillow structures; Vb - brecciated greenstone; Vs - volcanic sandstone, siltstone, or wacke; Vc - conglomerate; Vg - gabbro; Va - argillite

## UNCERTAIN AGE

## COQUIHALLA SERPENTINE BELT

Undifferentiated; Us - serpentinite; Ug - gabbro and microgabbro; Um - mariposite-magnesite-bearing rock ('listwanite')

## PERMIAN TO JURASSIC

## HOZAMEEN GROUP

Undifferentiated; Hs - volcaniclastic sedimentary rock, tuff, and siltstone; Hsl - with thin limestone interbeds; Hsa - with argillite interbeds; Hsc - with chert interbeds; Hsg - with thin volcanic, greenstone units; Ha - argillite; Hac - argillite and minor chert; Hl - limestone; Hc - chert; Hca - with minor argillite interbeds; Hcg - with minor greenstone interbeds; Hg - greenstone; HG - gabbro; Hu - serpentinite (Petch Creek serpentine belt)

## UNCERTAIN AGE

# CUSTER-SKAGIT GNEISS AND YOUNGER INTRUSIONS

Undifferentiated; Gd - massive to weakly foliated granodiorite;

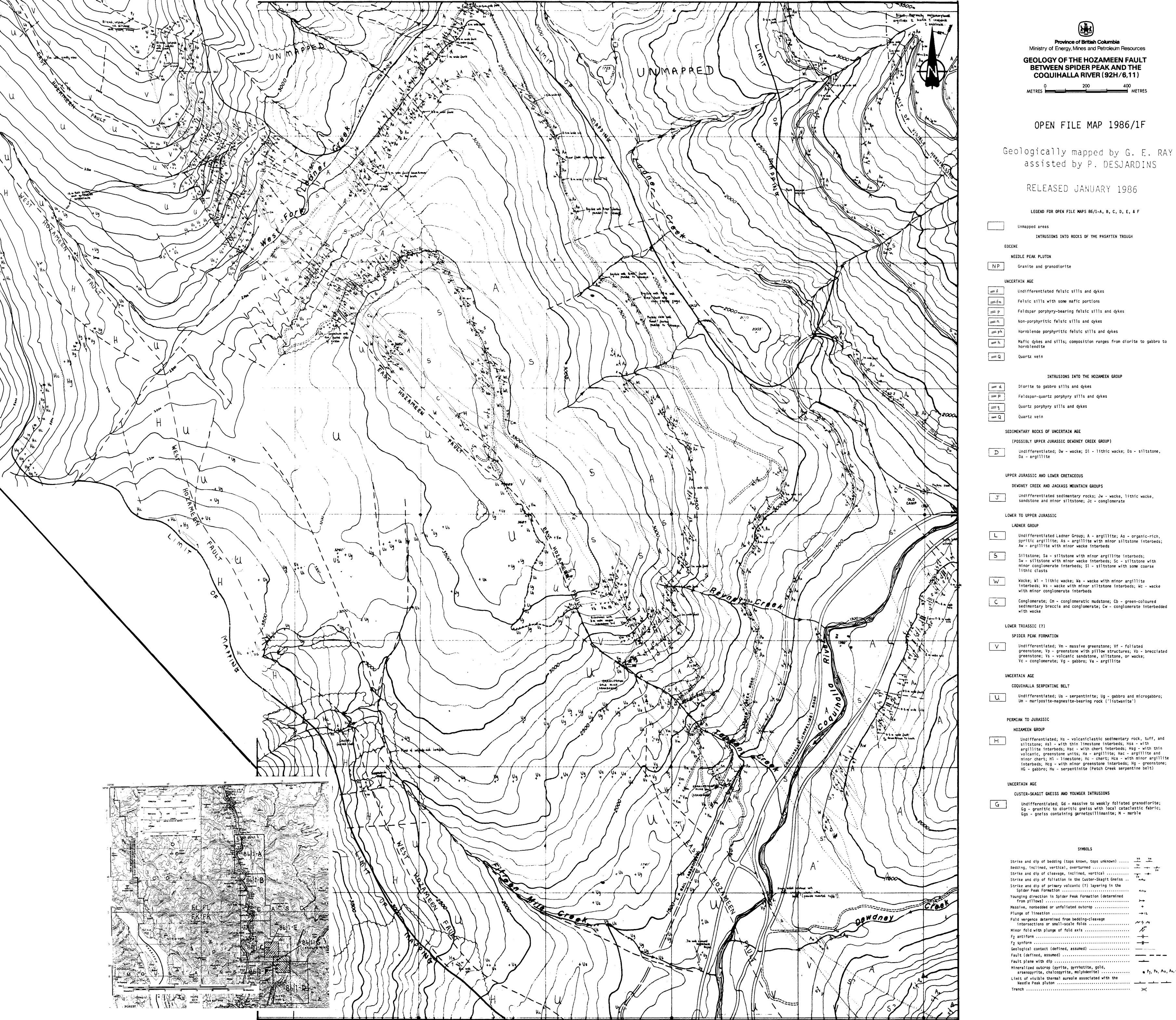
Gg - granitic to dioritic gneiss with local cataclastic fabric;

Ggs - gneiss containing garnet±sillimanite; M - marble

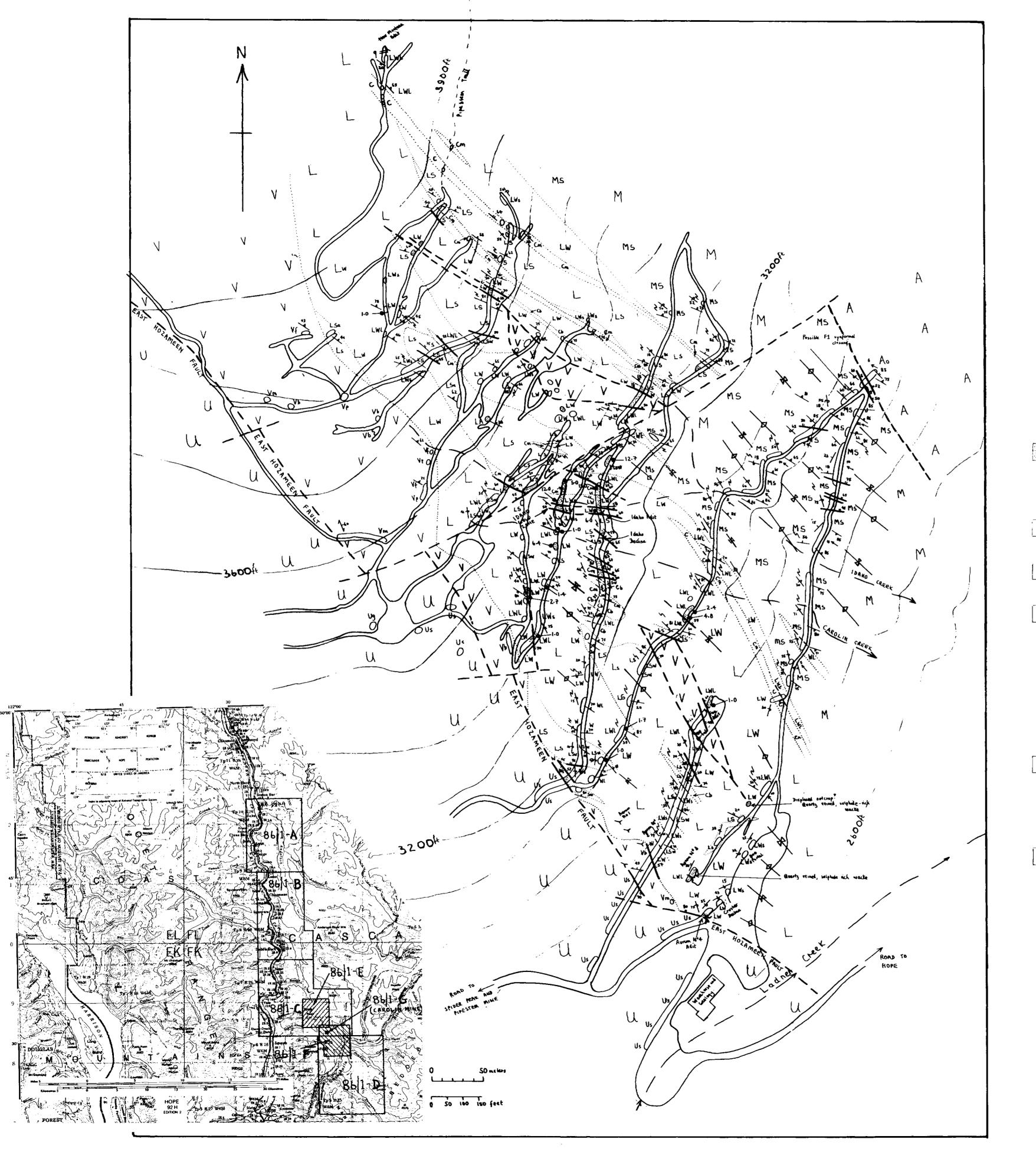
## SYMBOLS

Strike and dip of bedding (tops known, tops unknown)	
Bedding, inclined, vertical, overturned	<del></del>
Strike and dip of cleavage, inclined, vertical	70
Strike and dip of foliation in the Custer-Skagit Gneiss	****
Strike and dip of primary volcanic (?) layering in the	
Spider Peak Formation	هلم
Younging direction in Spider Peak Formation (determined	
from pillows)	<b>→</b>
Massive, nonbedded or unfoliated outcrop	+
Plunge of lineation	<del>&gt;</del> 12
Fold vergence determined from bedding-cleavage intersections or small-scale folds	NYM
Minor fold with plunge of fold axis	A10
F2 antiform	<del>- \$-</del>
F <sub>2</sub> synform	<del>- x</del>
Geological contact (defined, assumed)	
Fault (defined, assumed)	****
Fault plane with dip	<del></del>
Mineralized outcrop (pyrite, pyrrhotite, gold, arsenopyrite, chalcopyrite, molybdenite)	· Py, Po, Au, As, Cu, Mo
منطقة ماندلان في والمناطقين في والمناطقين في والمناطقين في والمناطقين في المناطقين والمناطقين والمن	

Limit of visible thermal aureole associated with the Needle Peak pluton



	04 04
trike and dip of bedding (tops known, tops unknown)	
edding, inclined, vertical, overturned	70 
trike and dip of cleavage, inclined, vertical	<del></del>
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imit of visible thermal aureole associated with the Needle Peak pluton	
rench	$\asymp$





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

#### GEOLOGY OF THE CAROLIN MINE AREA (92H/11)

OPEN FILE MAP 1986/1G

Geologically mapped by G. E. RAY assisted by P. DESJARDINS

RELEASED JANUARY 1986

	LEGEND FOR OPEN FILE MAP 86/1-G (CAROLIN MINE AREA)
UNCER	RTAIN AGE
= 9	Quartz vein
	Pyrite-pyyhotite mineralization
LOWER	TO UPPER JURASSIC
LA	NDNER GROUP
A	Upper Unit Undifferentiated upper sedimentary unit, largely argillite; Ao - slaty, organic-rich argillite
M	Middle Unit Undifferentiated middle sedimentary unit, largely siltstone; MS thin-bedded turbiditic siltstone
L	Lower Unit Undifferentiated lower sedimentary unit; LS - siltstone; LSw - siltstone with minor wacke; LSa - siltstone with minor argillite LW - wacke; LWl - lithic wacke; LWs - wacke with minor siltstone LWc - wacke with minor conglomerate; C - conglomerate; Cm - conglomeratic mudstone; Cb - green-coloured sedimentary breccia conglomerate; LA - argillite
	- UNCONFORMITY -
LOWER	TRIASSIC (?)
SP	PIDER PEAK FORMATION
V	Undifferentiated; Vm - massive greenstone; Vb - brecciated greenstone, Vp - greenstone with pillow structures; Vf - foliate greenstone
UNCER	RTAIN AGE
co	QUIHALLA SERPENTINE BELT
u	Undifferentiated; Us - serpentinite; Ug - gabbro and microgabbro
	SYMBOLS
F <sub>2</sub> c1	ing, tops known, tops unknown, overturned

Bedding, tops known, tops unknown, overturned
F <sub>2</sub> cleavage
F <sub>2</sub> lineation ←
Primary (?) volcanic layering in Spider Peak Formation
Fault with dip of fault plane, observed, assumed
Geological contact, observed, assumed
$F_2$ fold, antiform, synform
Lithogeochemical gold anomaly - gold values in ppm
Creek
Road
Adit ←
Note: Altitude contours are recorded in feet