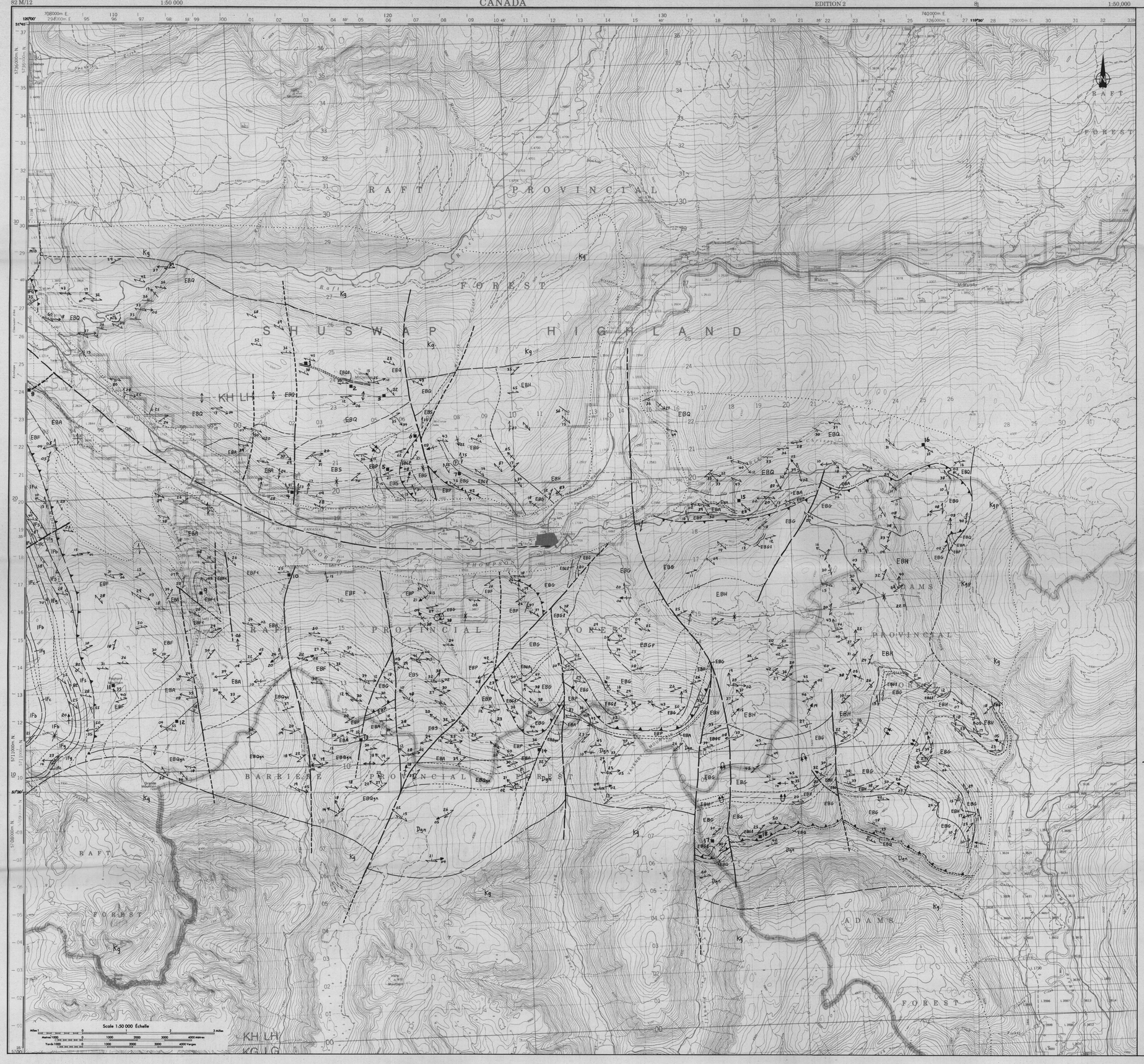
82 M/12 1:50 000 CANADA EDITION 2 8 1:50,000



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

OPEN FILE MAP 1986/5

GEOLOGY OF THE VAVENBY AREA

NTS 82M/5,11,12

Geology by Paul Schiarizza, 1985. Incorporates data from Assessment Reports 3430 (Brock and Roberts, 1971), 6878 (Kojdak, 1978), and 7119 (Dawson, 1979). Geology in vicinity of Foghorn Creek modified from B.C. Ministry of Energy, Mines and Petroleum Resources Preliminary Map 56 (Schiarizza and Preto, 1984).

LEGEND

MIOCENE OR PLIOCENE

mb OLIVINE BASALT

CRETACEOUS

BALDY BATHOLITH, RAFT BATHOLITH, AND RELATED ROCKS

Kg GRANITE AND GRANODIORITE; Kgp INCLUDES ABUNDANT PEGMATITE AS WELL AS FOLIATED GRANITIC ROCKS OF POSSIBLE OLDER AGE

LATE DEVONIAN (?)

Dgn GRANITE AND GRANODIORITE ORTHOGNEISS

DEVONIAN TO PERMIAN

ALLOCHTHONOUS INTERNALLY IMBRICATED OCEANIC ASSEMBLAGE

FENNELL FORMATION

IFc GREY AND GREEN BEDDED CHERT, CHERTY ARGILLITE, SLATE, AND PHYLLITE

IFb GREY AND GREEN PILLOWED AND MASSIVE METABASALT; MINOR AMOUNTS OF BASALTIC BRECCIA AND TUFF

IFg GABBRO, DIORITE, DIABASE

IFs LIGHT TO DARK GREY SANDSTONE, SILTSTONE, SLATE, PHYLLITE, AND QUARTZITE; MINOR AMOUNTS OF LIMESTONE, CHERT, AND QUARTZO-FELDSPATHIC PHYLLITE (METATUFF)

IFu UNDIVIDED, MAINLY IFc, IFg, and IFb

LOWER CAMBRIAN (AND OLDER ?) TO MISSISSIPPIAN
PARAUTOCHTHONOUS ROCKS (EBG TO EBQ)

EAGLE BAY FORMATION

UPPER STRUCTURAL SLICE

LOWER CAMBRIAN

EBG MEDIUM TO DARK GREEN CALCAREOUS CHLORITE SCHIST AND GREENSTONE DERIVED FROM MAFIC VOLCANIC AND VOLCANICLASTIC ROCKS; LESSER AMOUNTS OF CHLORITIC DOLOSTONE, LIMESTONE, AND HORNBLENDE-FELDSPAR-QUARTZ-CHLORITE-SERICITE SCHIST DERIVED FROM INTERMEDIATE VOLCANIC ROCKS; MINOR AMOUNTS OF QUARTZITE, GRIT, AND CHLORITE-SERICITE-QUARTZ SCHIST; EBGl - LIGHT GREY LIMESTONE; EBGf - LARGELY HORNBLENDE-FELDSPAR-QUARTZ CHLORITE-SERICITE SCHIST

LOWER CAMBRIAN AND/OR OLDER

EBH LIGHT TO MEDIUM GREY AND GREENISH GREY QUARTZITE, GRIT, AND CHLORITE-SERICITE-QUARTZ SCHIST; MINOR AMOUNTS OF MEDIUM TO DARK GREY PHYLLITE, AND RUSTY WEATHERING CHLORITE-SERICITE-DOLOMITE SCHIST

LOWER STRUCTURAL SLICE

MISSISSIPPIAN

EBP DARK GREY PHYLLITE INTERCALATED WITH SILTSTONE, SANDSTONE, GRIT, AND PEBBLE CONGLOMERATE; LESSER AMOUNTS OF LIMESTONE, DOLOSTONE, CHLORITE-SERICITE-QUARTZ SCHIST, QUARTZITE, AND METATUFF

DEVONIAN AND/OR MISSISSIPPIAN

EBF LIGHT TO MEDIUM GREEN TO GREENISH GREY CHLORITE-SERICITE SCHIST DERIVED FROM QUARTZ-HORNBLENDE-FELDSPAR CRYSTAL-LITHIC TUFFS AND (?) PORPHYRITIC FLOWS; MINOR AMOUNTS OF CHERTY QUARTZITE (SILICEOUS EXHALITE ?), DARK GREY PHYLLITE, AND SILTSTONE; EBFs - FELDSPAR PORPHYRY, FELDSPATHIC SCHIST, PYRITIC SERICITE-FELDSPAR-QUARTZ SCHIST, METAVOLCANIC BRECCIA, TRACHYTE

DEVONIAN

EBA LIGHT SILVERY GREY TO MEDIUM GREENISH GREY SERICITE-QUARTZ PHYLLITE AND SERICITE-CHLORITE-QUARTZ PHYLLITE DERIVED LARGELY FROM FELSIC TO INTERMEDIATE VOLCANIC AND VOLCANICLASTIC ROCKS; LESSER AMOUNTS OF GREEN CHLORITE PHYLLITE, DARK GREY PHYLLITE AND SILTSTONE, SERICITIC QUARTZITE, AND PYRITIC CHERT (EXHALITE ?)

DEVONIAN (?) AND/OR OLDER (?)

EBS LIGHT TO MEDIUM GREENISH GREY CHLORITE-SERICITE-QUARTZ SCHIST, SCHISTOSE SANDSTONE AND GRIT, QUARTZITE, AND PHYLLITE; LESSER AMOUNTS OF DARK GREY PHYLLITE, LIMESTONE, DOLOSTONE, AND CHLORITE SCHIST

LOWER CAMBRIAN (?) AND/OR OLDER (?)

EBQ LIGHT TO MEDIUM GREY QUARTZITE, PLATY CHLORITE-MUSCOVITE QUARTZITE, AND CHLORITE-MUSCOVITE-QUARTZ SCHIST; LESSER AMOUNTS OF LIMESTONE, CALC-SILICATE SCHIST, LIGHT TO DARK GREY PHYLLITE, CALCAREOUS PHYLLITE, AND GREEN CHLORITE SCHIST; INCLUDES GARNET-BIOTITE-MUSCOVITE SCHIST AND QUARTZITE IN VICINITY OF REG CHRISTIE CREEK; EBQl - LIMESTONE; EBQsn - INCLUDES ABUNDANT ORTHOGNEISS OF UNIT Dgn, AS WELL AS 'QUARTZ EYE'-SERICITE PHYLLITE DERIVED FROM QUARTZ PORPHYRY (SILLS ?)

SYMBOLS

GEOLOGICAL CONTACT: DEFINED, APPROXIMATE, ASSUMED
BEDDING, TOP KNOWN: INCLINED, OVERTURNED
BEDDING, TOP UNKNOWN: HORIZONTAL, INCLINED, VERTICAL
SYNMETAMORPHIC SLATY CLEAVAGE, SCHISTOSITY, OR GNEISSOSITY: HORIZONTAL, INCLINED, VERTICAL
MINERAL LINEATION
POSTMETAMORPHIC CRENULATION CLEAVAGE: INCLINED, VERTICAL
CRENULATION LINEATION
MESOSCOPIC FOLD AXIS: SYNMETAMORPHIC, POSTMETAMORPHIC
AXIAL TRACE OF INFERRED SYNMETAMORPHIC FOLD: OVERTURNED ANTICLINE, OVERTURNED SYNCLINE
AXIAL TRACE OF POSTMETAMORPHIC FOLD: ANTIFORM, SYNFORM
THRUST FAULT; TEETH ON UPPER PLATE: DEFINED, APPROXIMATE, ASSUMED
EARLY (PREMETAMORPHIC) EASTERLY DIRECTED THRUST FAULT; TEETH ON UPPER PLATE: DEFINED, APPROXIMATE, ASSUMED
FAULT: DEFINED, APPROXIMATE, ASSUMED
FOSSIL LOCALITY (EARLY CAMBRIAN ARCHAEOCYATHIDS) 5
MINERAL OCCURRENCE 5
LIMIT OF GEOLOGICAL MAPPING OR OUTCROP

LOCATION MAP

MINERAL OCCURRENCES

			MINFILE
1	RED TOP	Pb,Zn,Ag,Cu	82M-044
2	SNOW	Cu,Pb,Zn	82M-045
3	SUNRISE	Cu,Pb,Zn,Au	82M-046
4	LEONIE (NC)	Au,Ag,Pb,Cu	82M-036
5	BIARSDIN	Ag,Au,Cu,Pb	82M-037
6	MORRISON	Cu	82M-047
7	ROAM	Ag,Pb	82M-032
8	CU	Cu	82M-130
9	BERSPAR	U,F	82M-051
10	BALLION	U,F	82M-034
11	FOGHORN	Ag,Pb,Zn,Cu	82M-040
12	MAY (NC)	Cu	82M-038
13	HARPER CREEK (DOOF, SUE, HAIL)	Cu	82M-007,009
14	WW	Cu	82M-109
15	VAN (WEST)	Cu	82M-131
16	REG	Cu	82M-121
17	HILLTOP	Cu	82M-114
18	HILLTOP 9	Cu	82M-115

This map is a contribution to the Canada-British Columbia Mineral Development Agreement

Released January 1986