

GEOSCIENCE MAP 1994-3

GEOLOGY BETWEEN NINA LAKE AND OSILINKA RIVER, BRITISH COLUMBIA

NTS 93N/15 (N1/2), 94C/2 (S1/2)

Geology by F. Ferri, D.M. Melville



Scale 1:50 000

0 1 2 3 KILOMETRES

LEGEND

INTRUSIVE ROCKS	
Oal	Wertrite, dark grey to black, massive, slightly magnetic, minor serpentine and asbestos, gabbro, minor varicoloured cherts.
QUATERNARY	
Oal	Unconsolidated sands, silts, gravels; fluvial-glacial.
Tvo	Pyroxene-phyric basalt, dark grey, massive or fragmental, local flows or dikes.
VOLCANIC AND SEDIMENTARY ROCKS	
Oal	Shale, slate, grey to dark grey; limestone, argillaceous, thin bedded, grey.
PPnps	Upper Member: dolomite, limestone and sandy dolomite, grey, moderately bedded, minor quartzite. Lower Member: dolomite, grey, massive to thin bedded, dolomitic and dolites, locally silicified, minor dark grey argillite.
MIDDLE CAMBRIAN TO ORDOVICIAN (?)	
CORb	Razorback Group: Shale, slate, grey to dark grey; limestone, argillaceous, thin bedded, grey to black.
LOWER CAMBRIAN	
ICb	Atay Group: Mount Nason Limestone: Shale, slate, massive to thickly bedded, grey, slightly argillaceous and dolomitic, may be dolitic. Lower part: limestone, thinly bedded, platy, dark grey to grey.
ICb	Mount Brown Quartzite: Shale, slate, olive-green to grey, thin to moderately bedded, sandstone, beige to tan, moderately bedded; minor quartzite. Lower part: quartzite, massive to thickly bedded, white, grey, beige or brown.
UPPER PROTEROZOIC	
IPat	Ingenika Group: Stelkuz Formation: Shale, green to grey; sandstone and impure quartzite, grey to brown, planar bedded, massive to thickly bedded, minor dolomitic limestone.
IPat	Espee Formation: Limestone, locally dolomitic, grey, moderately to thinly bedded, marble.
Pit	Tsaydiz Formation: Shale, pyritic green to grey, interlayered with thinly bedded dolomite to argillaceous limestone; minor siltstone, wackes and feldspar phyllite; lesser tuffaceous siltstone, angular and olistopetric.
UPPER DEVONIAN TO PERMIAN	
BIG CREEK GROUP	MPnhs: Argillite, black to dark grey, slightly siliceous, massive to poorly bedded, minor quartz wacke, limestone, finely crystalline.
DPhs	DPbs: Shale, argillite, blue-grey to grey; minor quartz-chert siltstones, massive bedded.
MIDDLE DEVONIAN	
Do	Otter Lakes Group: Dolomite, limestone, dark grey to grey, feld, poorly bedded, locally fossiliferous; dolomite, grey, massive, finely crystalline.

NOTES

Geology from geological fieldwork performed by F. Ferri, D.M. Melville, J. Whittle and M. Holmes during the summer of 1989. Geology was mapped at a scale of 1:20 000. The geology of the map area is described in Bedrock Geology of the Germansen Landing - Manson Creek Area by Ferri, F. and Melville, D.M.; BC Ministry of Energy, Mines and Petroleum Resources Bulletin 91.

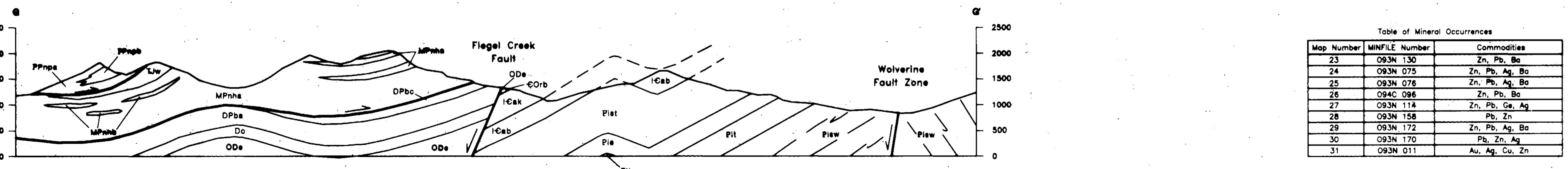
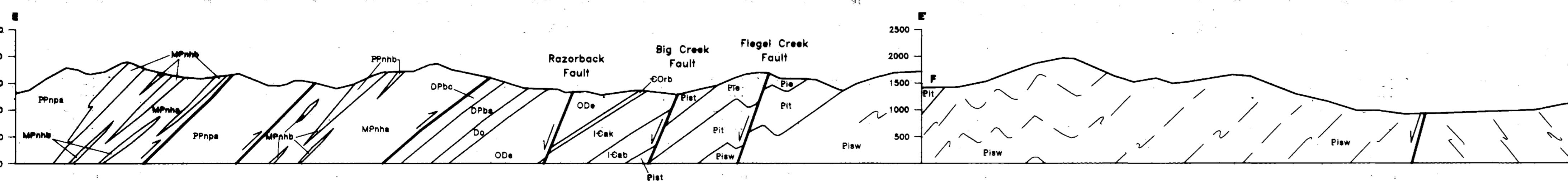
REFERENCES

Ferri, F., Melville, D.M. (1990): Geology Between Nina Lake and Osilinka River, British Columbia, 93N/15 (North Half) and 94C/2(South Half); B.C. Ministry of Energy, Mines and Petroleum Resources, Open File 1990-17.

Basemap is a composite of several maps produced by the Surveys and Mapping Branch, Department of the Environment and Natural Resources, October, 1975. Transverse Mercator projection, Zone 10, North American Datum 1927. True 1976 magnetic bearing is 292°1' east of grid north and is decreasing 3.9' annually. Grid north is 127° west of true north for centre of map.

SYMBOLS

Geological boundary (defined, approximate, assumed).	—
Normal fault (defined, approximate, assumed).	—
Thrust fault (defined, approximate, assumed).	△
Strike-slip fault (approximate).	—
Bedding (tops known, inclined, vertical).	—
Pillows (tops known).	—
F1 foliation (inclined, vertical).	—
Foliation in Germanen bentholith (inclined, vertical).	—
F1 minor fold axis.	—
F2 minor fold axis.	—
F3 minor fold axis.	—
F1 minor fold axis with S symmetry.	—
F1 minor fold axis with Z symmetry.	—
F1 minor fold axis with M symmetry.	—
F2 minor fold axis with S symmetry.	—
F2 minor fold axis with Z symmetry.	—
F3 minor fold axis with M symmetry.	—



Map Number	MINFILE Number	Commodities
23	093N 130	Zn, Pb, Ba
24	093N 075	Zn, Pb, Ag, Ba
25	093N 076	Zn, Pb, Ag, Ba
26	094C 096	Zn, Pb, Ba
27	093N 114	Zn, Pb, Ge, Ag
28	093N 145	Pb
29	093N 172	Zn, Pb, Ag, Ba
30	093N 170	Pb, Zn, Ag
31	093N 011	Au, Ag, Cu, Zn

