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Base from U.S. Geological Survey 30' topographic series: COLVILLE, 1929; and METALINE, 1931, WASH.-IDA., and a portion re-scribed from Canadian series: ROSSLAND-TRAIL SHEET 82 f/4 EAST and WEST 1951, and SALMO SHEET MAF 283A, 1931, CANADA. Compiled, Menlo Park, Base Map Unit. 6-12-68.

Fig. 14.-- Geologic map of part of northeastern Washington and adjacent Idaho and British Columbia

EXPLANATION

Symbol	Unit	Period	Epoch
Qga		QUATERNARY	
UNCONFORMITY			
Tss		TERTIARY	EOCENE
Tv			
TSV			
Tc Ts			
To			
Tcg			
UNCONFORMITY			
Ksp		CRETACEOUS	UPPER CRETACEOUS
Ka			
UNCONFORMITY			
JKn JKk		JURASSIC	
Jl			
Jru	ROSSLAND GROUP		
Jh			
Je			
JTRa		JURASSIC AND TRIASSIC (?)	
UNCONFORMITY			
Ps		PERMIAN (?)	
Pm		PENNSYLVANIAN	CARBONIFEROUS
Cf			
Pza			
Ca			
DS		DEVONIAN AND SILURIAN	
Ol		ORDOVICIAN	
Pzu			
Cct		CAMBRIAN	
Ccu			
Ccb			
Ccm			
Ccl			
Cpls			
Cpe			
Cpr			
Cq			
pCmd		PRECAMBRIAN	
pCgl			
pCm			
UNCONFORMITY			
pCv	WINDERMERE GROUP		
pCc			
pCcp			
UNCONFORMITY			
pCp	PRIEST RIVER GROUP		
pCpq			
pCpc			
pCpp			
FAULT			
pCbu	BELT SUPERGROUP		
pCbp			
gn	AGE UNCERTAIN		

DESCRIPTION OF MAP UNITS

Qga UNCONSOLIDATED DEPOSITS (Quaternary). Includes glacial fluvial terrace, and alluvial deposits.

Tss SHONKINITIC SILLS (Eocene)

Tv VOLCANIC ROCKS (Eocene). Includes rocks of Daly's Midway Group in Rossland map area and mafic volcanic rocks in Northport quadrangle.

TSV SAN POIL VOLCANICS (Eocene) Rhyodacite flows

To OBRIEN CREEK FORMATION (Eocene) Water lain tuff.

Tcg BASAL CONGLOMERATE (Eocene)

Ts SHEPPARD GRANITE (Eocene) Albite granite

Tc CORYELL PLUTONIC ROCKS (Eocene)

Ka SOPHIE MOUNTAIN FORMATION (Cretaceous) Non-marine conglomerate

JKn NELSON BATHOLITH (Jurassic and Cretaceous)

JKK KANIKSU BATHOLITH (Jurassic and Cretaceous)

Ksp SPIRIT PLUTON (Cretaceous)

Jl LIMESTONE (Probably Late Jurassic)

ROSSLAND GROUP

Jru ROSSLAND GROUP UNDIVIDED

Jh HALL FORMATION (Jurassic) Largely sedimentary rocks

Je ELISE FORMATION (Jurassic) Andesite and basalt flows and tuffs

JTRa ARCHIBALD FORMATION (Jurassic) Largely sedimentary rocks

Ps SEDIMENTARY AND VOLCANIC ROCKS. Upper M. (Permian?) ? only in south Northport quadrangle. Could be partly equivalent to Ca

Pm MOUNT ROBERTS FORMATION (Pennsylvanian) Fine grained sedimentary rocks and mafic volcanics.

Cf FLAGSTAFFMOUNTAIN sEQUENCE (Carboniferous ?) Largely argillite with limestone and a little greenstone. Stratigraphic position uncertain.

ls LIMESTONE IN FLAGSTAFF MOUNTAIN sEQUENCE (Carboniferous)

Ca ARGILLITE C (Carboniferous ?)Argillite with minor limestone greenstone, and cherts Includes Pend d'Oreille sequence, "sedimentary rocks, correlation unknown" of Fyles and Hewlett (1959)

ls LIMESTONE IN ARGILLITE C (Carboniferous ?)

Pza ARGILLITE B (Possible age range, Late Cambrian through Mississippian) Includes Active Formation of Canada, Ledbetter Slate (in Russian Creek area) of Dings and White-Bread (1965), and Grass Mountain sequence.

Pzu - DOLOMITE QUARTZITE and PHYLLITE. Probably Cambro-Ordovician.

DS ARGILLITE A (Devonian and Silurian) Black pelites and limestone;

Ol LEDBETTER SLATE (Ordovician); a green matrix includes interbed quartzite lenses (Cq).

LIMESTONE AND DOLOMITE (Middle and upper Cambrian) Nelway Formation in Canada, Metaline Formation in the United States. Occurs in two contrasting section.

Metaline section

Ccu UPPER LIMESTONE

Ccm MIDDLE DOLOMITE (also in Leadpoint section)

Ccl LOWER LIMESTONE (also in Leadpoint section)

Leadpoint section

Cct TRANSITIONAL UNIT

Ccb DOLOMITE BRECCIA

- PHYLLITE AND LIMESTONE (Early Cambrian) Laib Formation in Canada, Maitlen Phyllite in the United States

Cp LIMESTONE UNIT, mapped on map (Cambrian)

Cpe EMERALD MEMBER A black argillite that occurs in Canada

Cpr REEVES LIMESTONE MEMBER

Cq QUARTZITE (Early Cambrian, probably extends into Precambrian) Predominantly quartzite, minor argillaceous beds. In Canada includes Reno Formation, Quartzite Range Formation, and Three Sisterz Formation; in United States, Gypsy Formation

Cv MAFIC LAVA FLOW Near base of Gypsy Quartzite.

pCm MONK FORMATION (Precambrian) predominantly phyllite

pCmd DOLOMITE

cgl CONGLOMERATE (at base)

pCv VOLCANIC ROCKS (Precambrian) Greenstone and green schist.Irene Volcanics in Canada, Leola Volcanics in United States. Includes probably dikes and sills of Priest River Group

pCc CONGLOMERATE (Precambrian) Toby Conglomerate in Canada, Shedroof Conglomerate in United States.

pCcp PHYLLITE UNIT in Shedroof Conglomerate

PRIEST RIVER GROUP (Precambrian)

pCp PRIEST RIVER GROUP UNDIVIDED

pCpq QUARTZITE

pCpc DOLOMITE

pCpp UPPER UNIT

pCpc CONGLOMERATE

pCpl LOWER UNIT

pCbu BELT SUPERGROUP UNDIVIDED

pCbp PRICHARD FORMATION

gn LAYERED GRANITOID GNEISS. Age uncertain; metamorphism probably Mesozoic.

Section A-B-C-D-E-F on Fig. 25