



LEGEND

PENNSYLVANIAN AND FERMIAN	UPPER DEVONIAN (CONTINUED)
ROCKY MOUNTAIN GROUP (UNDIFFERENTIATED)	Dpm (MORNO MEMBER (CONTINUED))
Pfm QUARTZ SANDSTONE, DOLOMITIC SANDSTONE, SILTY DOLOMITE, CHERT, PHOSPHORITE; INCLUDES FERRAN ISBEL GROUP AND PENNSYLVANIAN SPRAY LAKES GROUP	Dpm2 LIMESTONE, ARGILLACEOUS LIMESTONE, LESSER SHALE; MEDIUM TO THIN BEDED; MEDIUM GREY WEATHERING, RECESSIVE
MISSISSIPPIAN	Dpm1 LIMESTONE WITH DOLOMITE MOTTLING, MASSIVE TO THICK BEDED, PALE GREY WEATHERING, CLIFF FORMING
ETTERINGTON FORMATION	Da ALEXO FORMATION
Me LIMESTONE, DOLOMITE, SILTSTONE	Da2 THINLY INTERBEDDED DOLOMITE AND LIMESTONE, LESSER SILTSTONE, TAN TO GREY WEATHERING
Mount Head Formation	Da1 SANDSTONE, DOLOMITIC SANDSTONE, DOLOMITIC SILTSTONE, LESSER MUDSTONE; THIN BEDED, TAN TO ORANGE WEATHERING
Mmh LIMESTONE (DOLIC AND SKELETAL), ARGILLACEOUS LIMESTONE, LESSER DOLOMITE	Fairholme Group (undifferentiated)
Livingstone Formation	Df ARGILLACEOUS LIMESTONE, DARK GREY TO TAN WEATHERING, LIMESTONE, SKELETAL IN PART; PALE GREY WEATHERING; LESSER DOLOMITE AND MUDSTONE; UNIT IS GENERALLY MEDIUM BEDED AND RECESSIVE; INCLUDES MOUNT MARK FORMATION AT TOP
Ml LIMESTONE (SKELETAL), LESSER DOLOMITE; THICK TO MEDIUM BEDED; PALE GREY WEATHERING, CLIFF FORMING	Middle Devonian and Upper Devonian
Mb BANFF FORMATION	Basal Devonian Unit
Mb2 LIMESTONE, LESSER DOLOMITE, ARGILLACEOUS LIMESTONE; SKELETAL IN PART; MEDIUM BEDED; MEDIUM GREY WEATHERING	Ds DOLOMITE, MUDSTONE, SANDSTONE, CONGLOMERATE, OYRAN; MAY INCLUDE EQUIVALENTS OF MIDDLE DEVONIAN CLEARBAY, BURNIE, AND HARBROOK FORMATIONS, IN PART
Mb1 SHALE, LIMESTONE, ARGILLACEOUS LIMESTONE, CHERT; MEDIUM TO THIN BEDED; MEDIUM TO DARK GREY WEATHERING, RECESSIVE	Middle Ordovician to Lower Silurian
Essex Formation	Ob BEAVERFOOT, MOUNT BRIDON, AND SKYRIE FORMATIONS (UNDIFFERENTIATED)
Me SHALE, LIMY SHALE, LESSER CHERT, THIN BEDED, DARK GREY WEATHERING, RECESSIVE	Or BEAVERFOOT; UPPER ORDOVICIAN AND LOWER SILURIAN DOLOMITE AND LIMESTONE; COMPETENT, CLIFF FORMING
UPPER DEVONIAN	Om MOUNT WILSON; UPPER AND IN MIDDLE ORDOVICIAN QUARTZ SANDSTONE
Falles Formation	Oq SKRKE; MIDDLE ORDOVICIAN DOLOMITE AND LIMESTONE
Dpc (OSTYGAN MEMBER)	LOWER AND MIDDLE ORDOVICIAN
Dpc2 THINLY INTERBEDDED DOLOMITE AND LIMESTONE, LESSER CHERT, MUDSTONE; SKELETAL IN PART; MINOR PYRITE, BUFF TO ORANGE WEATHERING, RECESSIVE	Og TIPPERARY; MIDDLE ORDOVICIAN SANDSTONE
Dpc1 INTERBEDDED DOLOMITE AND LIMESTONE, LESSER FLAT PEBBLE CONGLOMERATE; SKELETAL IN PART; BUFF WEATHERING	Og GLENLEAGUE; LOWER AND MIDDLE ORDOVICIAN SHALE, SILTSTONE, ARGILLACEOUS LIMESTONE AND SANDSTONE
Dpm (MORNO MEMBER)	UPPER CAMBRIAN AND LOWER ORDOVICIAN
Dpm2 LIMESTONE WITH DOLOMITE MOTTLING, MASSIVE TO THICK BEDED, PALE GREY WEATHERING, CLIFF FORMING	Mkay Group (undifferentiated)
Dpm1 DOLOMITE WITH WELL-DEVELOPED FINESTRAL POROSITY; OCCUPIED BY SECONDARY WHITE SPARRY DOLOMITE, LESSER BRICAL; MEDIUM BEDED, MEDIUM GREY WEATHERING; ASSOCIATED ZINC MINERALIZATION	Ma SHALE, LIMESTONE MAY INCLUDE UNDIFFERENTIATED GLENLEAGUE AND TIPPERARY FORMATIONS
Dpm3 DOLOMITE, MEDIUM BEDED, MEDIUM GREY WEATHERING	PALEOZOIC AND/OR YOUNGER
	A RILL RIVER AMPYDALOID

SYMBOLS

GEOLOGICAL CONTACT	FENESTRAE IN Dpm: INCLUDED, OVERTURNED
DEFINED, APPROXIMATE	CLEAVAGE (S ₁)
THrust Fault: DEFINED, APPROXIMATE (BAR ON HANGERSIDE)	JOINTING: INCLINED, VERTICAL
NORMAL Fault: DEFINED, APPROXIMATE (DOT ON HANGERSIDE)	LINATION (S ₂ - S ₃) INTERSECTION
Minor Fault: DEFINED, APPROXIMATE	FOLD AXIS
ANTICLINE - AXIAL TRACE, DEFINED, APPROXIMATE (ARROW SHOWS DIRECTION OF PLUNGE)	ZINC SHOWING
SYNCLINE - AXIAL TRACE, DEFINED, APPROXIMATE	LEFT OF MAP OR OUTCROP
OVERTURNED FOLD - AXIAL TRACE (LOOP POINTS IN DIRECTION OF CLOSURE, ARROWS SHOW SIDE OF BEED ON RESPECTIVE SIDES)	ROAD: LOOSE SURFACE
BEEDING (S ₁): INCLINED, HORIZONTAL, OVERTURNED	TOPOGRAPHIC CONTOUR (500-FOOT INTERVAL)
	LAKE

DESCRIPTIVE NOTES

The MUNROE zinc occurrence was discovered in 1972 by Silver Standard Mines Limited during follow-up of an isolated radiometric anomaly. Subsequent work in the area led to discovery of the ALPINE occurrence in 1977 and the BOVIN occurrence in 1978.

Stratigraphic mineralization is confined to the Upper Devonian (Fairholme) Patler Formation, Lower Morno Member (see legend). The immediate host lithology is a distinctive dolomite horizon ranging in thickness from 0 to over 30 metres and characterized by the widespread development of fenestral porosity. Fenestrae average approximately 1 centimetre by 3 centimetres in size, are aligned parallel to bedding, and are occluded by several stages of secondary white sparry dolomite. Zinc mineralization postdates the sparry dolomite infill, occurring as disseminations and as beds of straw-yellow sphalerite. Alteration of sphalerite to smithsonite and hydrothermal calcite is common in surface exposures.

All showings on the property occupy the inverted limb of a major eastward verging anticline (see cross-sections).

