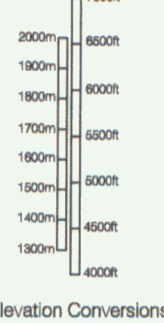
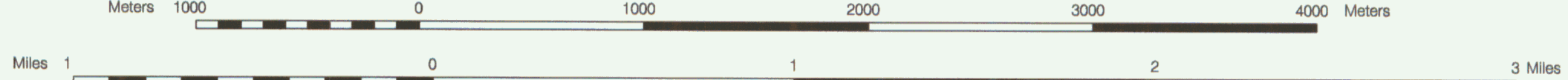


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Universal Transverse Mercator Grid
ZONE 9
Contour Interval 20m

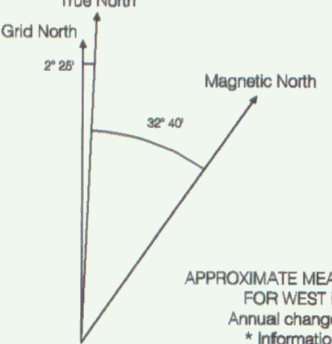


Elevation Conversions



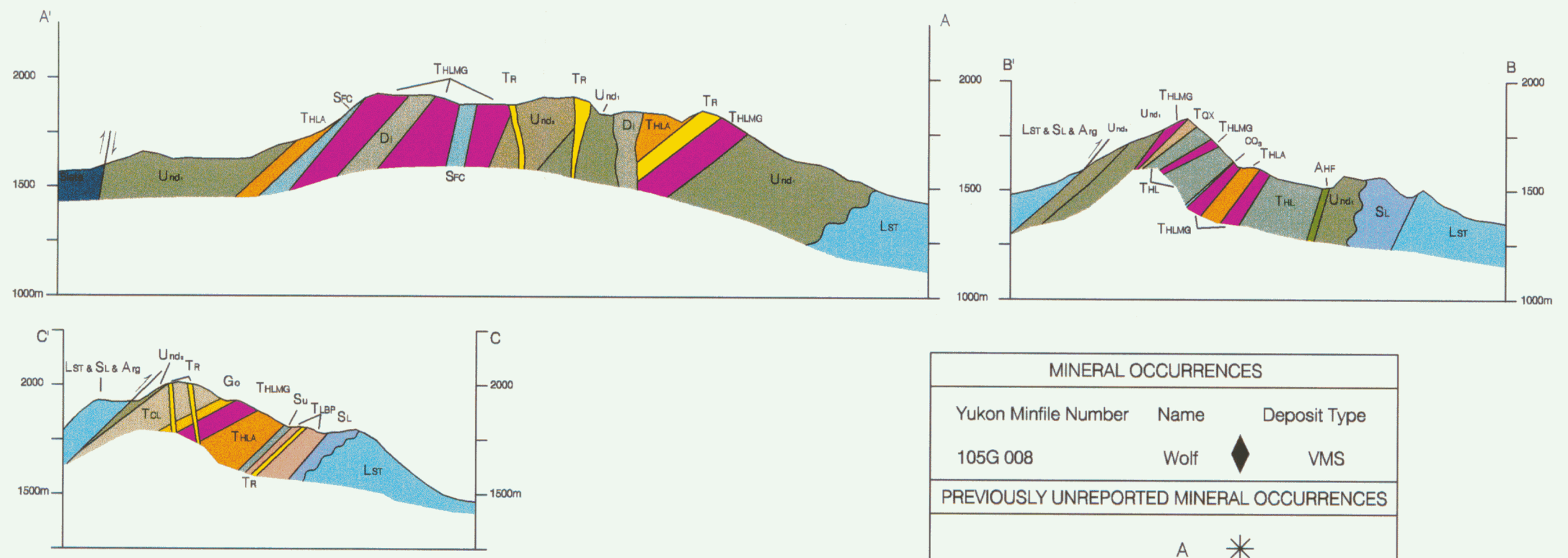
Preliminary Geological Map of the Mt. Vermillion Area

Yukon Territory
Scale 1:25 000



APPROXIMATE MEAN DECLINATION 1986
FOR WEST EDGE OF MAP
Annual change 7.8 decreasing
Information from 1990G5

| | | |
|---------|---------|---------|
| 105 G12 | 105 G11 | 105 G10 |
| 105 G05 | 105 G06 | 105 G07 |
| 105 G04 | 105 G03 | 105 G02 |



| MINERAL OCCURRENCES | | |
|---|------|--------------|
| Yukon Minfile Number | Name | Deposit Type |
| 105G 008 | Wolf | VMS |
| PREVIOUSLY UNREPORTED MINERAL OCCURRENCES | | |
| | A | * |
| | B | * |
| | C | * |

LEGEND

DEVONO-MISSISSIPPIAN

Non-fragmental Units

- Sy** Syenite - grey weathering, grey to white or rarely pink, very fine-grained to pegmatitic with pink feldspar crystals up to 4 cm long. Disseminations and blebs of pyrite occur throughout the intrusion with rare fluorite.
- Tr** Trachyte flows, sills and dykes - dark rusty brown to yellow or grey weathering, fresh surfaces are dark pinkish brown to light grey with numerous iron carbonate filled vesicles. Locally fine-grained glassy needle-like feldspar crystals are visible
- Di** Diorite/Andesite flows, sills and dykes - medium grey-green to brown weathering with a pitted surface. Fresh surfaces are medium green with relict biotite? And feldspar crystals and trace fine-grained disseminated pyrite. Locally the rocks are cut by numerous carbonate filled fractures.
- Fragmental Units**
 - Tcl** Chlorite altered tuff/brecciated diorite/andesite lapilli tuff - black to dark grey weathering with rusty iron carbonate blebs and veinlets throughout. Rare light coloured, sub-angular fragments occur in a fine-grained dark grey matrix.
 - THLA** Heterolithic lapilli tuff with argillite clasts - This lithology is generally flaggy and weathers light pink-brown with silvery coloured fragments and weathered out iron carbonate blebs. The fragments are dominantly pale green volcanic rock and lesser, but distinct, fine-grained black argillite fragments that average 0.5 to 1.0 cm across. Locally this unit is very coarse-grained with argillite clasts up to 50 cm across.
 - THL** Heterolithic lapilli tuff - this unit is similar to THLA but has no argillite clasts.
 - CO3** Narrow white limestone bands and lenses within the volcanic package.
 - THAB** THLA interbedded with narrow bands of black argillite.
 - THMG** Maroon and green heterolithic lapilli tuff - In general this unit has a maroon matrix with dominantly pale green and lesser pale grey clasts that average 1 to 3 cm across. Locally this unit is very coarse grained with trachyte fragments up to 60 cm across (locally may include narrow bands and lenses of argillite).
 - TLP** Pyritic/sulphidized lapilli tuff - weathers rusty yellow and gossanous to bleached. Pyritic clasts generally less than 1 cm across occur in a light grey matrix.
 - TOL** Quartz (feldspar) crystal tuff - weathers medium grey with cream and black fragments. Fresh surfaces are medium grey with trace to 5% glassy quartz crystals 1 to 3 mm in diameter.
 - TUBP** Brown-pink lapilli tuff - Flaggy, light pinkish brown weathering tuff with rounded, fine-grained, pale grey to pale green, rarely feldspar phryic, fragments (trachyte?) 2 to 15 mm across.
 - AHP** Heterolithic felsic agglomerate/breccia - Weathers light grey with rusty blebs. Angular, fine-grained, grey fragments up to 30 cm across occur in a medium to dark grey matrix.
 - Sbr** Syenite breccia - weathers light grey to white, monolithic with fine-grained angular fragments from 1 to 15 cm across. Locally the fragments include white feldspar and rounded quartz crystals.
 - Arg** Argillite - black to silvery grey, fissile, locally laminated, rarely finely striped grey and green.
 - Src** Interbedded sandstone, shale/argillite and iron carbonate cemented breccia
 - Su** Undivided sedimentary rocks - made up of interbedded argillite and fine to coarse-grained buff coloured sandstone.
 - Unds** Undivided unit made up of Tr, THLA and THMG
 - Unds** Undivided unit made up of THLA and THMG
 - Goss** Gossan
 - Unds** Undivided unit made up of grit, conglomerate and THLA. It is not clear if this unit is part of the Devonian-Mississippian volcanic sequence or the overthrust package.

DEVONIAN or older

- Lst** Limestone/dolomite - cliff forming carbonate weathers light grey to brown, is massive to well bedded, locally brecciated, locally crinoidal and locally fine-grained and laminated.
- Sl** Limey siltstone/shale
- S** Carbonate, sandstone, grit and argillite - brown to grey to cream weathering, massive, grey, locally fossiliferous and/or bioturbated carbonate with minor sandstone interbeds; dark brown weathering coarse-grained sandstone; polyimictic grit made up of varicoloured fine-grained cherty clasts in an argillaceous matrix; black, fissile argillite.
- SLst** Grey weathering lustrous tuffaceous slate; minor orange or grey weathering sandstone.

SYMBOLS

- Limit of mapping
- Geological contact (defined, approximate, assumed and/or covered)
- Fault (defined, approximate, assumed and/or covered)
- Thrust fault (defined, approximate, assumed and/or covered)
- Bedding
- Foliation
- Cross-section line
- Stratigraphic-section location
- Winter trail

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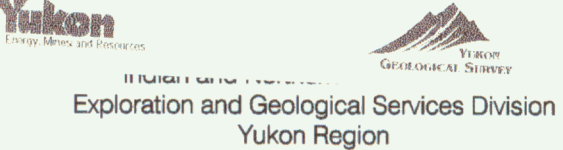
Digital drafting by Jason Adams, Yukon Geology Program.
Any revisions or additional geological information known to the user would be welcomed by the Yukon Geology Program

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Open File 1998-5

Preliminary Geological Map of the Mt. Vermillion Area
Southern Yukon
(Parts of 105G5 & 105G6)

by

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Geoscience Office