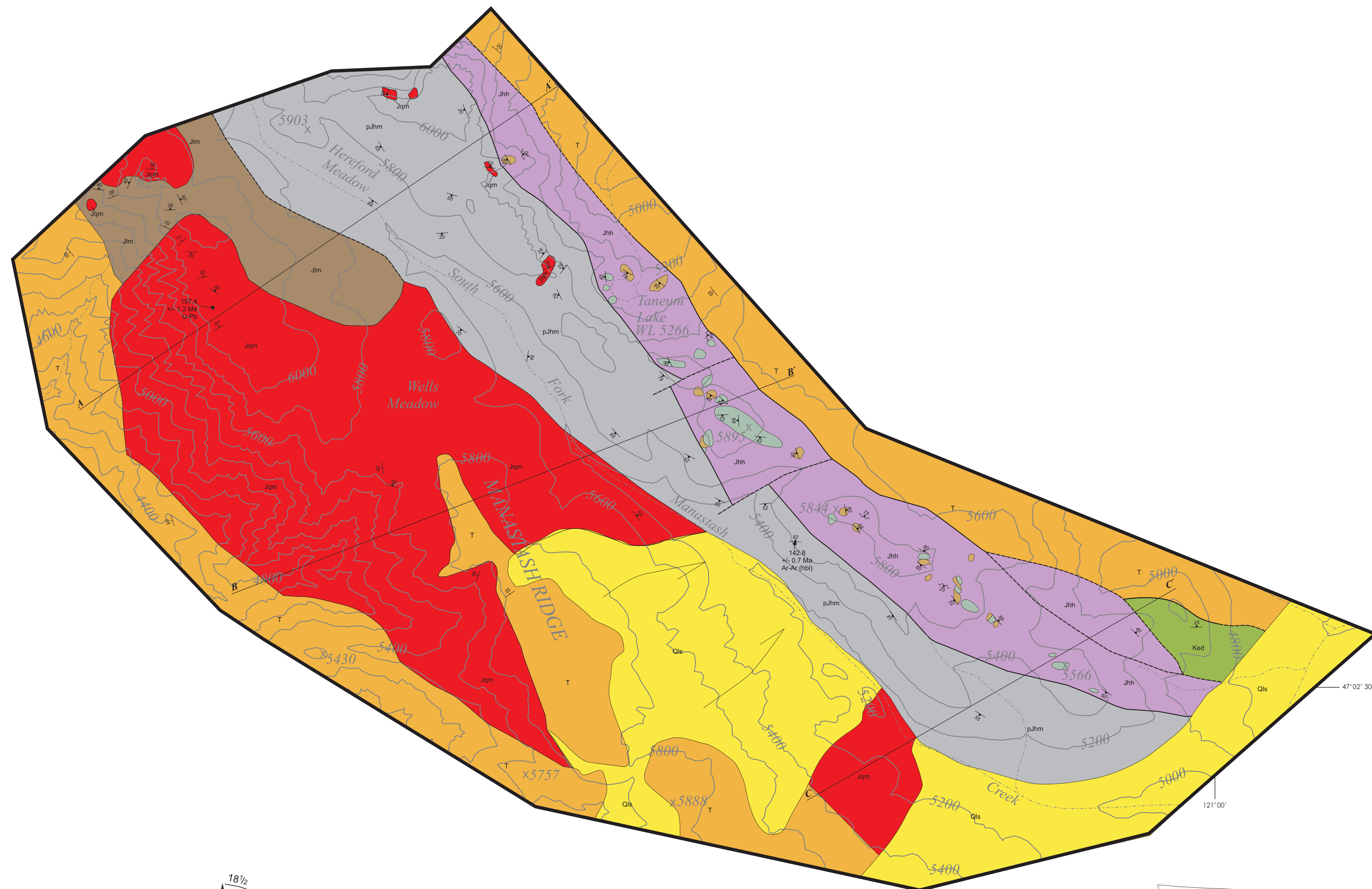


PLATE 1  
GEOLOGIC MAP OF THE SOUTHERN PART OF THE MANASTASH INLIER



- DESCRIPTION OF MAP UNITS**
- SURFICIAL DEPOSITS**
- Qls** Landslide deposits (Holocene and Pleistocene) — A mixture of angular clasts of bedrock and surficial deposits derived from slope.
- BEDROCK**
- T** Volcanic and sedimentary rocks undivided (Tertiary)
- ROCKS IN DARRINGTON-DEVILS MOUNTAIN FAULT ZONE**
- Jsh** Helena-Haystack melange (Jurassic granulite with Tertiary or Cretaceous melange formation) — Cataclastic to Massyformic block of phyllite, gneiss, schist, meta-dyadic, meta-basalt, amphibolite, meta-tuff, and ultramafic rocks. Equivalent to the tectonic complex of Stout (1964).  
Divided into:  
    - Phyllite and schist blocks
    - Gneiss, meta-dyadic and meta-basalt blocks. Gneiss are well foliated, with chlorite, epidote and sparse as alteration minerals. Meta-dyadic and well foliated and consist of quartz, albite, chlorite and epidote. Meta-basalt preserve well formed pillow structures and into pillow carbonates. Relict igneous textures are vesicular hyalophitic transitional to interstitial.
- EASTON METAMORPHIC SUITE**
- Ked** Darrington Phyllite (Early Cretaceous) — Black, gray to bluish gray chloritic-sericite-quartz phyllite.
- JURASSIC UNITS OF THE MANASTASH INLIER**
- Jsh** Quartz Mountain stock (Late Jurassic) — Hornblende granodioritic and hornblende tonalite with mafic enclaves locally. Hypidiomorphic granular igneous texture with actinolite, biotite, epidote and chlorite replacing hornblende and clinzoisite and albite replacing plagioclase. The main stock and satellites intrude the Lookout Mountain formation and amphibolite with their contacts.
  - Jhm** Lookout Mountain Formation (Late Jurassic) — Black, fine grained garnet biotite schist. Locally, staurolite, andalusite and rare cordierite occur. Chert was observed at one locality. Relict bedding, graded bedding, side marks, cross bedding, flame structures and elastic grains occur.
  - Jpm** Hereford Meadow amphibolite (pre-Late Jurassic) — Mostly fine and lower medium grained amphibolite that has a well developed foliation. Hornblende has been overprinted with actinolite, plagioclase has been albite, and epidote occurs locally. Lesser well foliated fine grained meta-sandstones consists of mostly quartz with lesser albite, plagioclase and actinolite. Cut by the Quartz Mountain stock.
- Contact** — Dashed were approximate.  
**Fault** — Dashed were approximate.  
**Holding in cross sections.**  
**Igneous foliation in cross sections.**  
**Metamorphic foliation in cross sections.**  
**Direction of downslope movement of landslide deposits.**  
**Strike and dip of inclined bedding.**  
**Strike and dip of inclined metamorphic foliation.**  
**Strike and dip of inclined deformed metamorphic foliation.**  
**Strike and dip of inclined igneous foliation.**  
**Dated sample locality.**

18 1/2  
TRUE NORTH  
MAGNETIC NORTH  
APPROXIMATE MEAN DECLINATION, 2005

