STRUCTURAL COMPILATION PROJECT – MANITOBA UPDATE

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May 18, 2006
From: Western Canada Sedimentary Basin Atlas (Mossop and Shetsen, 1994; AGS)
Topography
Aeromag

Gravity

Morozov (pers. comm., Jan. 13, 2006)
Manitoba’s Integrated Anomaly Map – Paul Lenton

http://www.gov.mb.ca/iedm/mrd/geo/gis/geoscimaps.html
Manitoba’s Integrated Anomaly Map – Paul Lenton

- Linears transferred from website into computer
- Area of Province reduced to focus on Manitoba’s portion of WCSB
- Major Precambrian lineaments and sub-Phanerozoic lineaments retained

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Manitoba’s Integrated Anomaly Map – Paul Lenton

http://www.gov.mb.ca/iedm/mrd/geo/gis/geoscimaps.html
• 28 Magnetic linears (red)
• 10 Phanerozoic faults (green)
• 7 Magnetic low linears (blue)
• 24 Documented faults (purple)
• 10 Topographic lineaments (turquoise)
• 22 Dike swarms (black)
NATMAP Shears and Faults

Shears (red) and Faults (black)
NATMAP Shears and Faults
Anomaly map vs NATMAP

- Anomaly map only
- Anomaly map and NATMAP
Future Work

Bell (1971; GAC)

Wilson (1971; GAC)
Pemmican Island Sulphide Occurrence

Tube-like structure

Botryoidal structures
Pemmican Island Sulphide Occurrence
Pemmican Island Sulphide Occurrence

- 5.66% Zn, 1.04% Pb
Future Work

Li and Morozov (2006)

