

# GEOLOGY OF THE SLAVE STRUCTURAL PROVINCE

## LITHOLOGIES

### PROTEROZOIC-PALEOZOIC

cover rocks

### ARCHEAN (supracrustal rocks are metamorphosed)

#### Younger Assemblage

- polymict conglomerate, feldspathic arenite
- granitoid rocks

#### Yellowknife Assemblage

- migmatite and gneiss: (may include older rocks)
- supracrustal rocks identified
- plutonic and undifferentiated rocks
- metagreywacke-mudstone; minor conglomerate (s), calc-arenite, carbonate, and iron formation
- intermediate-felsic volcanic rocks
- mafic-intermediate and undifferentiated volcanic rocks
- gabbro-diorite and gneissic granitoid rocks, partly syrovolcanic

#### Older Assemblage

- quartz arenite and felsic volcanic rocks, zircon older than 2.8 Ga; commonly associated with iron-formation and ultramafic rocks
- gneiss and granite, partly with zircon ages >2.8 Ga; includes undifferentiated younger rocks

Boundary of Slave Structural Province

Geological contacts approximate, gradational

#### Structural trends

- fold
- foliation in migmatite and granitoid rock
- cleavage oblique to folds
- shear zone
- fault

0 100 200

65°00'

64°00'

63°00'

62°00'

116°00'

114°00'

112°00'

63°00'

64°00'

65°00'

66°00'

67°00'

68°00'

HT CLAIMS

Coronation Gulf

Bathurst Inlet

BATHURST FAULT

WOPWAY FAULT

McDONALD FAULT

YELLOWKNIFE

Great

Slave

Lake

**BENACHEE RESOURCES INC.  
SNOWPIPE RESOURCES LTD.**

**HT CLAIMS  
REGIONAL GEOLOGY**

Modified from Fyson & Padgham 1993-8

CANAMERA GEOLOGICAL LTD

SCALE: AS SHOWN DATE: JUNE, 1996

FILE: HTFIG3.DWG

APPROVED BY: R.W.A.

FIGURE NO.: 3